

Service Manual

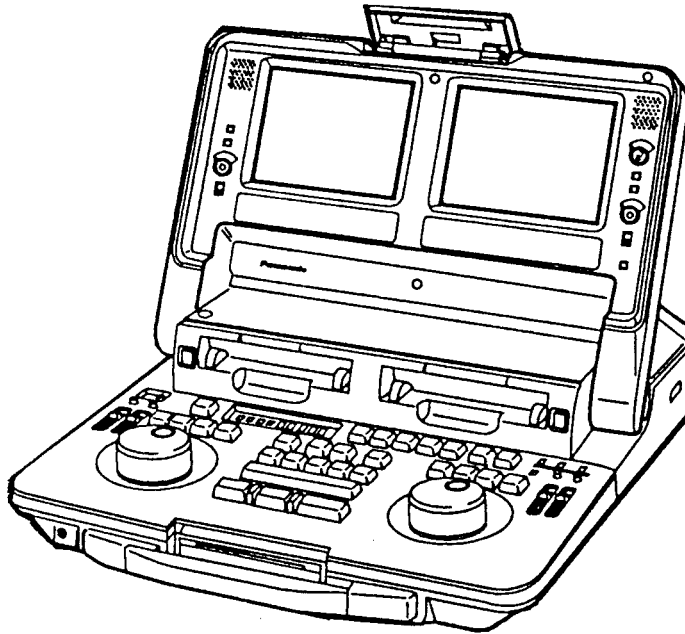
Vol. 1

INCPRO

Lap Top Editor

AJ-LT75E

- Sec. 1** *Operating Instructions*
- Sec. 2** *Maintenance & Mechanical Adjustments*
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- Sec. 6** *Exploded Views & Parts List*



Please refer to the Service Manual Volume 2 (order No. VSD9707M602B) for block diagrams, schematic diagrams and circuit board diagrams.

Panasonic

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service manual by anyone else could result in serious injury or death.

INTRODUCTION

This service manual contains technical information which allow service personnel to understand and service the DVCPRO Laptop Editor AJ-LT75E.

SPECIFICATIONS

GENERAL

Rating input: DC 12V 9A

Recording format:	DVCPRO
Recording tracks	Digital video
	Time code; Recorded in sub-code area
	Digital audio; 2 channels
	Cue signal; 1 track
	Control (CTL); 1 track
Tape speed:	33.854 mm/sec.
Recording time:	123 min. (with AJ-P123LP tape)
	63 min. (with AJ-P63MP tape)
Tape used:	1/4" thin magnetic layer metal tape
FF/REW time:	Less than 3.5 min. (with AJ-P123LP tape)
Editing accuracy:	±0 frame (with time code)
Tape timer accuracy:	±2 frame (per event when continuous CTL signal is used)
Servo lock time:	Less than 0.5 sec.
Ambient operating temperature:	5°C to 40°C (41°F to 104°F)
Ambient operating humidity:	10% to 85% (no condensation)
Dimensions:	424 (W) × 120 (H) × 435 (D) mm (16-3/4" × 4-3/4" × 17-1/4")
Weight:	11.9 kg (26.18 lbs)

VIDEO

DIGITAL

Sampling frequency:	Y; 13.5 MHz, Pb/Pr; 3.375 MHz
Quantization:	8 bits
Error correction:	Reed-Solomon codes

ANALOG COMPOSITE IN/OUT

Video band range:	Y; 25 Hz – 5.5 MHz (±1dB, typ.)
DG:	Less than 6%
DP:	Less than 4.5°
Y/C delay:	Less than 30 nsec
K factor:	Less than 2%
Analog composite input:	BNC×2 (VTR1, VTR2), 75 ohms
REF video input:	BNC×2 (loop-through), 75 ohms, automatic
Analog composite output:	BNC×2 (VTR1, VTR2), 75 ohms
Monitor output:	BNC×2 (VTR1, VTR2), 75 ohms, superimpose ON/OFF

SPECIFICATIONS

VIDEO OUTPUT SIGNAL

Video gain:	More than $\pm 3\text{dB}$
Chroma gain:	More than $\pm 3\text{dB}$
Chroma phase:	More than $\pm 25^\circ$
Black level:	More than $\pm 70\text{ mV}$
H phase:	More than $\pm 1.5\mu\text{sec}$
SC phase:	360°

AUDIO

DIGITAL

Sampling frequency:	48 kHz
Quantization:	16 bits
Frequency response:	20 Hz~20 kHz $\pm 1\text{dB}$
Dynamic range:	More than 85dB (1kHz, emphasis off, "A" weighted)
Distortion rate:	Less than 0.1% (1kHz, emphasis off, standard level)
Crosstalk:	Less than -80dB (1kHz, between 2 channels)
Wow & flutter:	Under measurable value
Headroom:	18dB
Emphasis:	$T1=50\mu\text{sec}/T2=15\mu\text{sec}$ (on/off enable)

ANALOG IN/OUT

Analog input (VTR1):	XLR $\times 2$ (CH1, CH2), high impedance, 4/0/-20dBu
Analog input (VTR2):	XLR $\times 2$ (CH1, CH2), high impedance, 4/0/-20dBu
Microphone input (VTR2, CH2):	XLR (VTR2, CH2: LINE/MIC selectable), high impedance, -50dBu
Analog output (VTR1):	XLR $\times 2$ (CH1, CH2), low impedance, 4/0/-20dBu
Analog output (VTR2):	XLR $\times 2$ (CH1, CH2), low impedance, 4/0/-20dBu

MONITOR OUTPUT/HEADPHONES

Monitor output (VTR1):	XLR $\times 1$, low impedance, 0dBu, CH1/MIX/CH2 selectable
Monitor output (VTR2):	XLR $\times 1$, low impedance, 0dBu, CH1/MIX/CH2 selectable
Headphones:	Mini-Stereo, variable level (Max. -20dBu), 8 ohms, VTR1/MIX/VTR2 selectable, CH1/MIX/CH2 selectable

OTHERS

RS-422A input:	D-sub 9-pin, RS-422A interface
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LCD MONITOR

LCD display:	6.5 inches TFT active matrix $\times 2$ (VTR1, VTR2)
Brightness adjustment:	Variable volume $\times 2$ (VTR1, VTR2)
Screen adjustment:	Colour, Tint, Contrast (separate left and right OSD menu)
Backlight switches:	Bright/Dark/Off (separate left and right switches)

SPEAKERS

Built-in speakers $\times 2$, VTR1/MIX/VTR2 selectable, CH1/MIX/CH2 selectable

DISPLAY TUBE (VTR1, VTR2 separately)

Counter:	8 digits (CTL/TC/UB selectable, total, remaining tape length)
Audio level meters:	16 steps
Others:	Servo lock lamp, DV lamp, tape travel status indication/recording inhibit lamp, Video/REF input lamp

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

SAFETY PRECAUTIONS

GENERAL GUIDELINES

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohm meter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1 M Ω and 5.2 M Ω .

When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

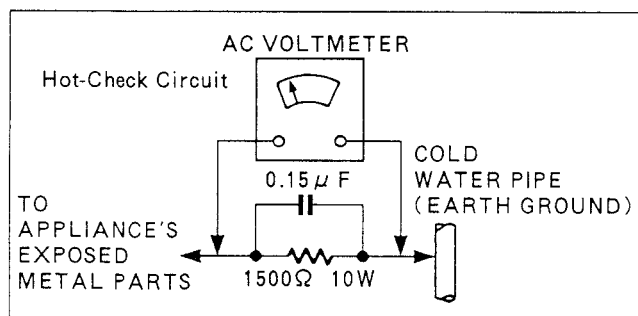


Figure 1

LEAKAGE CURRENT HOT CHECK (See Figure 1)

1. Plug the AC cord directly into the AC outlet.
Do not use an isolation transformer for this check.
2. Connect a 1.5 K Ω , 10W resistor, in parallel with 0.15 μ F capacitor, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground.
Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device).

X-RADIATION

WARNING

1. The potential source of X-Radiation in EVF sets is the High Voltage section and the picture tube.
2. When using a picture tube test jig for service, ensure that jig is capable of handling 10kV without causing X-Radiation.
NOTE: It is important to use an accurate periodically calibrated high voltage meter.
3. Measure the High Voltage. The meter (electric type) reading should indicate 2.5kV, \pm 0.15kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure. To prevent an X-Radiation possibility, it is essential to use the specified picture tube.

CONTENTS

Section 1. Operating Instructions

Section 2. Maintenance & Mechanical Adjustments

*This section includes maintenance chart, replacement parts location, sensors location, jig & tools, P.C.boards location, alignment tapes, service menu, disassembly procedures and emergency eject.
This section includes LISTA adjustments.*

Section 3. Electrical Adjustments

Section 4. Service Information

Section 5. Block Diagrams

Each block diagram has a brief description.

Section 6. Exploded Views & Parts List

SECTION 1

OPERATING INSTRUCTIONS

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INTRODUCTION

Thank you for purchasing this AJ-LT75 laptop editor.
This is a digital VTR using 1/4-inch tapes.

This laptop editor with its two digital VTRs features two mechanisms, two liquid-crystal monitors and editing control sections all combined into a single editing package. This single unit can perform cut editing on its own while its compact size, light weight and portability enable it to be taken anywhere with the greatest of ease.

Features

• Compact size and light weight

This editing package comes with two digital VTRs. Its compact size and light weight make the laptop extremely portable so that it can be taken anywhere for ready operation on, for instance, an office desk.

• Cut editing

The two digital VTRs make it possible to conduct assemble editing and insert editing (video, audio and time code signals exactly as desired). These types of editing can be performed automatically.

• Back-up recording

Back-up recording is enabled by the two digital VTRs. One of the VTRs can be used for playback and the other for recording. (Refer to the system connection diagram.)

• Recording duration of up to 123 minutes

Either M cassette tapes (max. 63 minutes) or L cassette tapes (max. 123 minutes) can be used. In both cases, the tape is one-fourth of an inch wide to achieve a compact design.

• Compatibility with consumer-use equipment

Consumer-use Mini DV cassette tapes which have been shot using a consumer-use digital camera can be played back on this laptop using the cassette adaptor (option: AJ-CS750P).

• Liquid-crystal monitors

The laptop has two liquid-crystal TV monitors which support the two digital VTRs. This enables the images to be easily checked during the course of editing.

• Volume controls

Each of the digital VTRs provides volume controls for recording and playing back the sound of two channels. The level meters below the liquid-crystal monitors make it easy to check the signal strength. There are also two speakers, and the actual sound can be checked using the desired combination of facilities.

• Functional I/O interfaces

Analog I/O: Each VTR is equipped with video and audio I/O connectors.

9-pin (remote control) x2

• 2-channel sound

Each of the two sound channels can be edited separately. Mix, swap and other functions can also be selected.

• Dial jog and shuttle

Edit points can be searched smoothly by manipulating the jog dial. Shuttle is possible up to 32 times the normal tape speed in the forward or reverse direction.

• Encoder provided

Each VTR has an encoder to adjust the output images. These encoders can be used for forwarding and other applications.

• Editing of 100 events

One hundred programs can be registered. Their edit points can be stored in the internal memory.

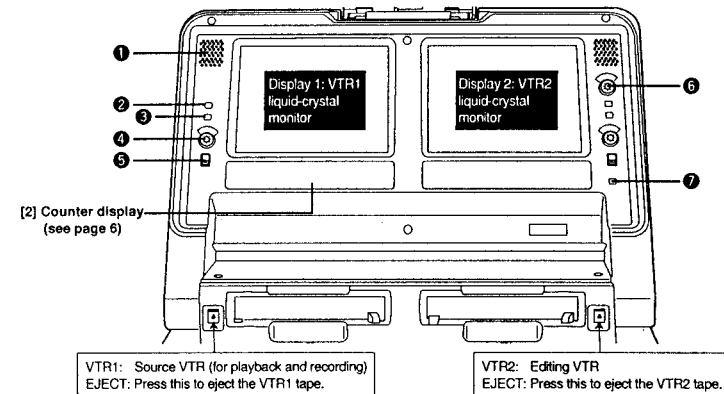
• Time code

This laptop incorporates a time code generator (TCG)/time code reader (TCR) which can be used for time code editing.

• On-screen settings

Highly personalized functions can be set on-screen.

CONTROLS AND THEIR FUNCTIONS



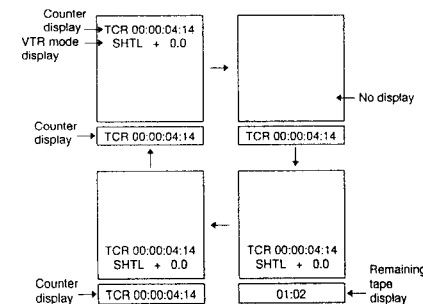
[1] Liquid-crystal monitor section

① Audio monitor speaker

The VTR1 (or VTR2) monitor sound is heard through this speaker. Depending on the position selected by the SPEAKER/HEADPHONES switch, the VTR1 and/or VTR2 sound is selected and output.

② COUNTER/REMAIN switch

This selects the VTR1 display tube contents. When it is switched between the COUNTER and REMAIN positions, the on-screen (OSD) display position is switched. (Top, bottom and OFF)
Each time the switch is pressed, the display is switched as shown below.



③ EXT CHECK button

While this button is held down, the external input of VTR1 can be checked. The level meter of the display section is set to the fine mode.

④ BRIGHTNESS control

This is used to adjust the brightness of the VTR1 liquid-crystal display.

⑤ LCD switch

This controls the power to the VTR1 LCD monitor and selects the brightness of the backlight.
LIGHT: For making the backlight brighter.
DARK: For making the backlight dimmer.
OFF: For turning off the LCD.

⑥ LEVEL control

This is used to adjust the output level of the built-in speakers and headphones.

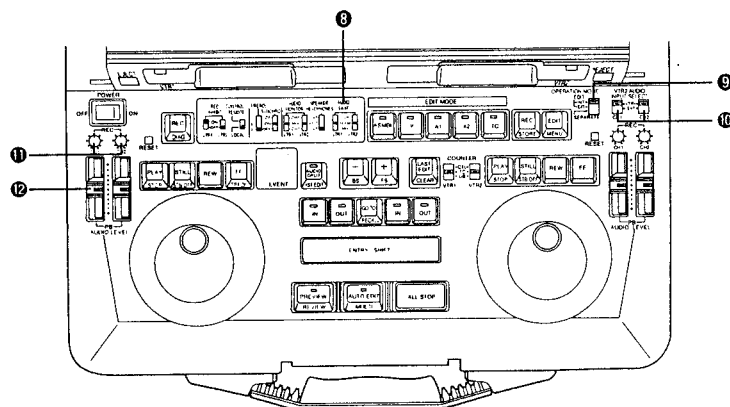
⑦ TOTAL button (for VTR2 only)

While this button is held down, the total editing time from the edit start point to the current editing program appears on the display counter.

The description of the VTR2 display is exactly the same as that for the VTR1 display.

* The display shown above appears on the LCD monitor only when set-up item No.001 (LCD SUPER) is set to ON.

CONTROLS AND THEIR FUNCTIONS



- ① AUDIO SWAP switch (for both VTR1 and VTR2)**
This selects the audio output. (It is also effective when an internal connection is made from VTR1 to VTR2.)

	CH1 output connector	CH2 output connector
SWAP	CH2 sound	CH1 sound
NORM	CH1 sound	CH2 sound
MIX	CH1, CH2 sound mixed	CH1, CH2 sound mixed

- The SWAP, NORM or MIX sound is not output to the AUDIO MON OUT connector or HEADPHONES jack.
- The sound which is output from the built-in speakers and headphones remains unchanged.

- ② OPERATION MODE switch**
INT: In this mode, editing is performed using an internal connection from VTR1 to VTR2. VTR1 enters the recording prohibited mode.
EXT: In this mode, editing is performed using an external analog connection from VTR1 to VTR2. VTR1 enters the recording prohibited mode.
SEPARATE: In this mode, VTR1 and VTR2 operate separately.

Note:

When editing a tape in VTR1 in the INT mode, the output signals from the PB VIDEO OUT connector or MONITOR OUT connector may be affected by vertical dancing, however no problem are posed with editing.

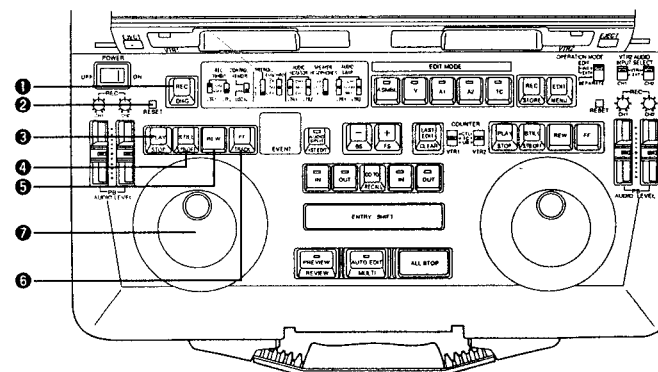
- ⑩ VTR2 AUDIO INPUT SELECT switch**
This selects the audio CH1 and CH2 input of VTR2.
VTR1: The audio output signals of VTR1 are supplied to VTR2.
EXT: The external audio input signals of VTR2 are supplied to VTR2.

Level Controls

- ① REC AUDIO LEVEL controls (for both VTR1 and VTR2)**
CH1: For adjusting the CH1 recording level.
CH2: For adjusting the CH2 recording level.

- ② PB AUDIO LEVEL controls (for both VTR1 and VTR2)**
CH1: For adjusting the CH1 playback level.
CH2: For adjusting the CH2 playback level.

CONTROLS AND THEIR FUNCTIONS



[4] Player/Recorder Control Section

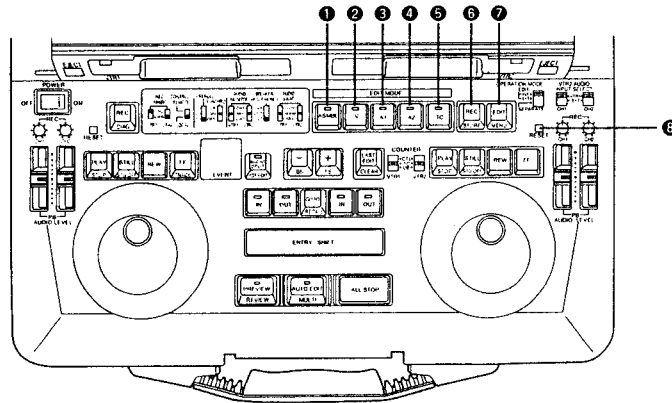
- ① REC button (for recorder control section only)**
To set the recorder VTR manually to the recording mode, press this button and the PLAY button together. Recording is possible on the VTR1 only if the OPERATION MODE switch of VTR1 is set to "SEPARATE."
DIAG (SHIFT+DIAG): Press these buttons to display the DIAG menu.
- ② RESET button**
- This is used to reset the CTL counter on the VTR1 display section or to reset an edit point.
 - When it is pressed together with the IN or OUT button, the registered IN point or OUT point is deleted.

[5] VTR Control Section (for both VTR1 and VTR2)

- ③ PLAY (STOP) button**
STOP (SHIFT+PLAY): Press these buttons to set the VTR to the stop mode.
- ④ STILL (STB OFF) button**
STILL: Press this button to set the VTR to the still picture mode.
STBOFF (SHIFT+STILL): Press these buttons to release the standby mode in the still-picture or stop mode.
- ⑤ REW button***
Press this to rewind the tape.
- ⑥ FF button* [FF (TRACK) button for VTR1]**
Press this to fast forward the tape.
TRACK (SHIFT+FF) (VTR1 side)
Press this when setting the unit to the track mode in order to activate the track function.
- ⑦ Search dial button**
This controls the tape travel. Use it for locating edit points or for playback. In the "out" position, the dial is set to the shuttle mode; in the "in" position, it is set to the jog mode. Each time the dial is pressed, the selection is toggled between these two modes.

(*) The tape stops traveling when the REW and FF buttons are pressed together.

CONTROLS AND THEIR FUNCTIONS

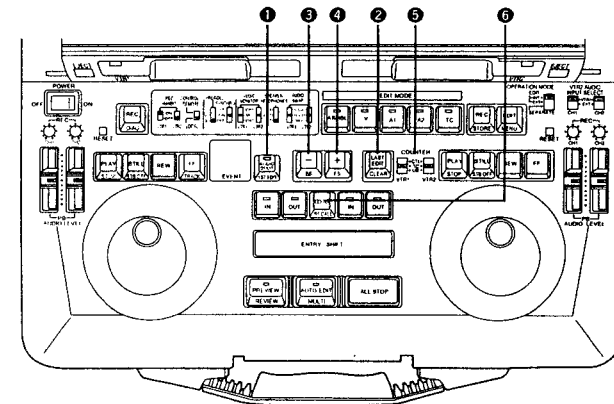


[6] Edit Mode Setting Section

- ① **ASMBL button/lamp**
For assemble editing, press this button. Check that its lamp is lighted up.
- ② **V button/lamp**
For inserting video signals, press this button. Check that its lamp is lighted up.
- ③ **A1 button/lamp**
For inserting audio CH1 signals, press this button. Check that its lamp is lighted up.
- ④ **A2 button/lamp**
For inserting audio CH2 signals, press this button. Check that its lamp is lighted up.
- ⑤ **TC button/lamp**
For inserting time code signals, press this button. Check that its lamp is lighted up.
- ⑥ **REC (STORE) button**
REC: To set the VTR manually to the recording mode, press this button and the PLAY button together. When the REC button is pressed while the REC INHIBIT switch is at OFF, the VTR2 video and audio CH1 and CH2 will be set to the E-E mode while the button is held down.
STORE (SHIFT+REC): Press these buttons to set the VTR1 (playback) or VTR2 (recording) edit points and store the edit data in the internal memory. The EVENT counter is simultaneously incremented. When the set-up operations are performed, the data which has been set is saved in the set-up memory.

- ⑦ **EDIT (MENU) button**
EDIT: Press this button to establish the E-E mode in accordance with the edit mode. While it is held down, the VTR2 video and audio input signals are output without being recorded in accordance with the edit mode. To conduct a recording, press this button together with the PLAY button in the VTR2 control section. While VTR2 is in the playback mode.
MENU (SHIFT+EDIT): Press these buttons to perform dial menu set-up.
- ⑧ **RESET button**
 - This resets the CTL counter on the VTR2 display section.
 - When the IN or OUT button is pressed together with the RESET button, the registered IN or OUT point is cleared.

CONTROLS AND THEIR FUNCTIONS

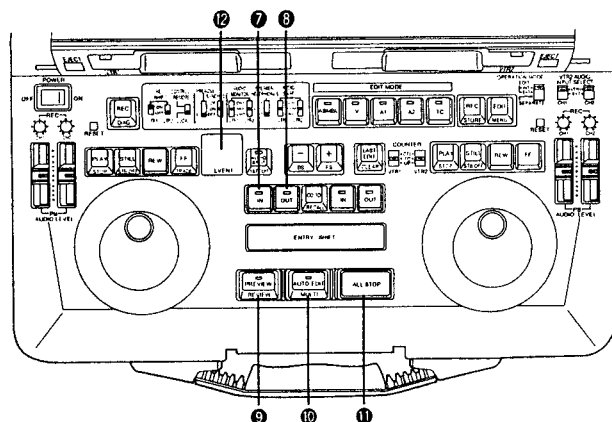


[7] Automatic Editing Control Section

- ① **AUDIO SPLIT (1ST EDIT) button**
AUDIO SPLIT: For audio split editing, press this button and light up its lamp. Then set the audio IN point.
1ST EDIT (SHIFT+AUDIO SPLIT): For details, please refer to preparation of editing tape on page 35 and set-up menu item No. 311 (1ST EDIT DUR).
- ② **LAST EDIT (CLEAR) button**
LAST EDIT: This button accesses the previously pre-viewed contents. (It alternately accesses two sets of contents whose preview has been completed.)
CLEAR (SHIFT+LAST EDIT): These buttons delete the registered event. The "d" display appears for EDL.
- ③ **-(BS) Minus trim button**
-: When the IN or OUT point which has been input is to be returned by one frame, this trim button is pressed while the IN or OUT button is pressed. To use this function continuously, keep pressing the buttons. To set further back both the IN and OUT points simultaneously for editing, press this trim button while the IN and OUT buttons are pressed.
BS (SHIFT+ "-"): These buttons access the previous edit. Keep pressing the button to execute the function continuously.
- ④ **+ (FS) Plus trim button**
+: When the IN or OUT point which has been input is to be advanced by one frame, this trim button is pressed while the IN or OUT button is pressed. To use this function continuously, keep pressing the buttons. To advance both the IN and OUT points simultaneously for editing, press this trim button while the IN and OUT buttons are pressed.
FS (SHIFT+ "+"): These buttons access the last event. Keep pressing the button to execute the function continuously.
- ⑤ **COUNTER switches**
These switches select the counter reference for VTR1 and VTR2.
CTL: At this switch position, the CTL pulse count after resetting appears on the counter display. It is reset by the RESET button.
TC: The time code (absolute value) which has been read appears at this position. It is not reset even if the RESET button is pressed.
UB: The user bit which has been read appears at this position.
- ⑥ **GO TO/RECALL button**
GO TO: To check the IN or OUT point image, press the IN or OUT button while holding down the GO TO button. In the audio split edit mode, the audio IN point is searched when the IN button is pressed.
RECALL (SHIFT+GO TO): These buttons re-register an event which was deleted in the EDL mode. The "d" display changes to "no display."

This button does not work when the SEPARATE MODE switch has been set to SEPARATE.

CONTROLS AND THEIR FUNCTIONS



⑦ IN button (for both VTR1 and VTR2)

Press this button while holding down the ENTRY button to register the IN point of the player or recorder. Press it alone to check the IN point. While it is held down, the IN point appears on the display. To display the editing duration, press the IN and OUT buttons together. "-----" is displayed when the edit IN and OUT points are not registered.

⑧ OUT button (for both VTR1 and VTR2)

Press this button while holding down the ENTRY button to register the OUT point of the player or recorder. Press it alone to check the OUT point. While it is held down, the OUT point appears on the display. To display the editing duration, press the OUT and IN buttons together.

⑨ PREVIEW/REVIEW button

PREVIEW: To conduct an editing rehearsal, press this button and light up its lamp.
REVIEW (SHIFT+PREVIEW): When reviewing the edited block, press this button and light up its lamp.

This button does not work when the SEPARATE MODE switch has been set to SEPARATE.

⑩ AUTO EDIT/MULTI button

AUTO EDIT: To start automatic editing, press this button and light up its lamp.

MULT (SHIFT+AUTO EDIT): Press these buttons to edit two or more events in succession from the current edit in the EDL mode. Editing is executed automatically until either the editing of the last event is completed or the ALL STOP button is pressed to forcibly terminate the editing.

This button does not work when the SEPARATE MODE switch has been set to SEPARATE.

⑪ ALL STOP button

When this button is pressed during preview, automatic editing or review, the ongoing operation is stopped. However, only VTR2 is stopped when the OPERATION MODE switch has been set to "SEPARATE." When the button is pressed together with the CLEAR button, all the events in the EDL are deleted, and the event number is set to "n01."

⑫ Event number display

Up to 100 (01 to 99, 00) edit data are controlled inside the laptop.

Two-digit event numbers appear on this display. Depending on the edit status, "n" or "d" appears in front of the event number.

n: A new event which is not registered in the EDL.

d: An event which was deleted from the EDL.

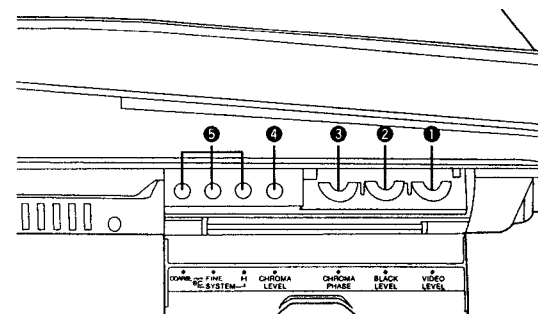
No display: An event which is registered in the EDL.

FULL: All 100 events have been registered.

→: When the laptop is operated by remote control or when the OPERATION MODE switch has been set to "SEPARATE."

rSt: When the power was turned on or when resetting was performed.

CONTROLS AND THEIR FUNCTIONS



[8] Side Panel Section (for both VTR1 and VTR2)

Signals conveyed via an internal connection cannot be adjusted.

① VIDEO LEVEL control

This is used to adjust the video level of the VTR's video output.

② BLACK LEVEL control

This is used to adjust the set-up level of the VTR's video output signals.

③ CHROMA PHASE control

This is used to adjust the hue of the VTR's video output signals.

④ CHROMA LEVEL control

This is used to adjust the chroma level of the VTR's video output signals.

⑤ SYSTEM controls

H: This is used to adjust the system phase in SC period increments.

SC FINE: This is used to adjust the SCH phase only; the SC phase is changed (the H phase remains unchanged).

SC COARSE: This is used to adjust the SCH phase in 90-degree increments (the H phase remains unchanged).

[9] Front Section

① Headphone jack (Mini stereo)

- When the headphones are plugged into this jack, the sound will no longer be heard through the built-in speaker.
- Adjust the headphones output level using the LEVEL control in the LCD monitor section.

[10] Top Section

② VTR operation display LED

This indicator allows the user to check the operation status of the VTR even when the display is closed.

Off: Indicates the power OFF status.

Lights: Indicates that the power is on and the tape is stopped.

Flashes (at approx. 1-second intervals):

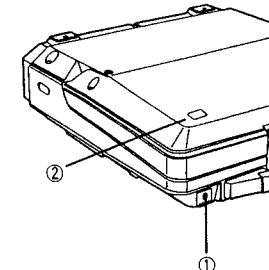
Indicates that a tape is traveling in one of the VTRs.

Flashes (at approx. 0.5-second intervals):

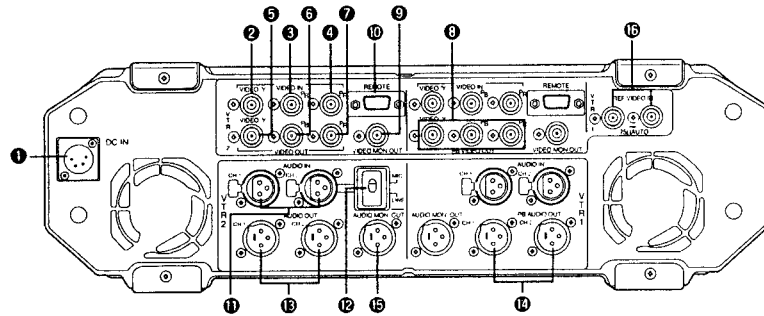
Indicates that tapes are traveling in both of the VTRs.

Flashes (at approx. 0.25-second intervals):

Indicates the auto OFF status.



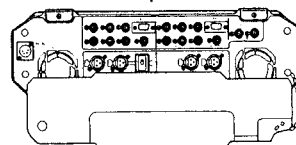
CONTROLS AND THEIR FUNCTIONS



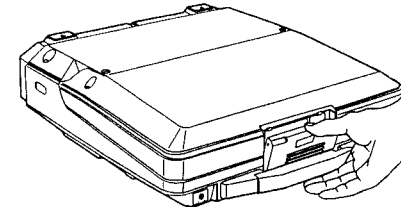
Connector Section (for both VTR1 and VTR2)

- 1 DC IN socket (XLR 4P)**
DC power input socket.
The AC adaptor AJ-B75 (optional accessory) must be used to supply the power. The unit's operation cannot be guaranteed if any other power supply is used instead.
- 2 VIDEO/Y IN connector (BNC)**
The analog composite signal or analog component Y signal is input to this connector. The input signal is selected using the set-up menu item No.805 (V IN SEL) setting.
- 3 Pb IN connector (BNC)**
The analog component Pb signal is input to this connector.
- 4 Pr IN connector (BNC)**
The analog component Pr signal is input to this connector.
- 5 VIDEO/Y OUT connector (BNC) (VTR2 only)**
The analog composite signal or analog component Y signal is output from this connector. The output signal is selected using the set-up menu item No.806 (V OUT SEL) setting.
- 6 Pb OUT connector (BNC) (VTR2 only)**
The analog component Pb signal is output from this connector.
- 7 Pr OUT connector (BNC) (VTR2 only)**
The analog component Pr signal is output from this connector.
- 8 VIDEO/Y OUT connector (BNC) (VTR1, only for playback)**
Pb OUT connector (BNC) (VTR1, only for playback)
Pr OUT connector (BNC) (VTR1, only for playback)
- 9 VIDEO MON OUT connector (BNC)**
The video monitor signal is output from this connector.
- 10 REMOTE connector (D-SUB, 9P)**
RS-422A Interface remote connector.
- 11 AUDIO IN connectors (CH1/CH2) (XLR x2)**
The analog audio signals are supplied to these connectors.
- 12 CH2 INPUT level switch**
Used to select the analog audio input signal CH2 level.
LINE: Line input (+40/-20 dBu)
MIC: MIC input (-50 dBu)
- 13 AUDIO OUT connectors (CH1/CH2) (XLR x2) (for VTR2 only)**
Analog audio signals are output from these connectors.
- 14 PB AUDIO OUT connectors (CH1/CH2) (XLR x2) (for VTR1 only)**
The analog audio signals are output from these connectors only during playback. (The E-E signals are not output.)
- 15 AUDIO MON OUT connector (XLR)**
The audio monitor signal is output from this connector.
- 16 REF VIDEO IN connectors (BNC x2)**
Analog composite signals are supplied to these connectors.
These are loop-through connectors provided with automatic 75-ohm termination.

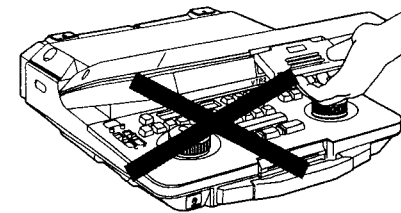
Attach the supplied connector cover to the unit, when carrying the unit around.



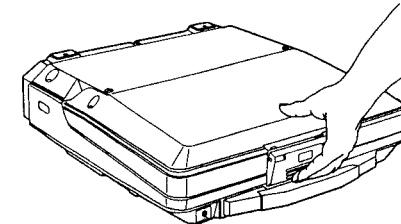
OPENING AND CLOSING THE LAPTOP



Pull the lever and release the lock.

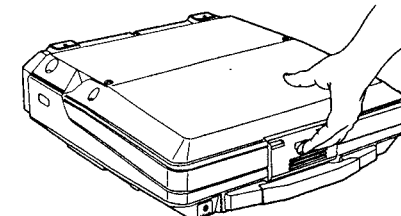


Do not take hold of the lever and use it to open the laptop.



Close the laptop while pushing the bottom of the lever, as shown in the figure on the left.

- 1** Push the bottom of the lever.
- 2** Push up the lever.

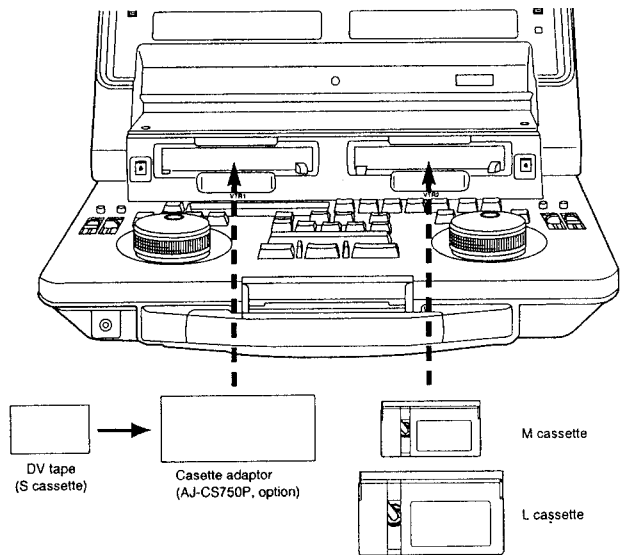


Notes:

1. Take care not to catch your fingers in the cover while opening or closing it.
2. Take care not to use this unit on bedding or a carpet.

COMPATIBLE TAPES

Align the cassette tape with the centre of the loading slot, and push it in gently. It is then loaded automatically.

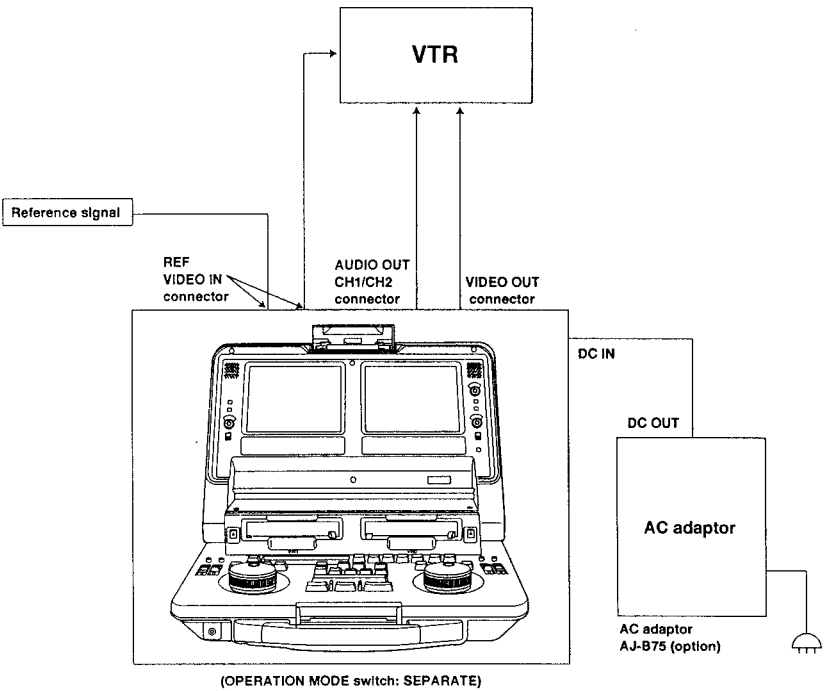


Cassette type	Description
Consumer-use DV cassette (S cassette)	This is exclusively designed for use in consumer-use cassette camera/recorder units. It can be used with the laptop for playback only if the AJ-CS750P cassette adaptor (option) is obtained. If a consumer-use cassette tape is to be used, it must first be loaded into the AJ-CS750P adaptor (optional accessory). Use of Panasonic consumer DV cassette tapes is recommended. Ensure that inserting such a tape directly without using the cassette adaptor may cause trouble.
M cassette	Recording/playback tape with a maximum length of 63 minutes (AJ-P12MP, AJ-P23MP, AJ-P33MP, AJ-P63MP)
L cassette	Recording/playback tape with a maximum length of 123 minutes (AJ-P64LP, AJ-P94LP, AJ-P123LP)

<Precautions for playing back consumer-use DV tapes>

- Consumer-use tapes can be used for playback only.
- Tapes recorded in the LP mode cannot be played back.
- Since consumer-use tapes cannot be used for recording, the laptop's functions related to recording as well as its REC and other operations are disabled.
- Consumer tape FF/REW speed is VTR limited to $\pm 32\times$. Slow motion playback is not possible with consumer cassette tape.
- In order to protect the tape, the maximum STILL TIMER for consumer tape is 10 seconds, and the available time for leaving the tape in STILL mode is set at 1 minute.
- The read disable display for the time code may sometimes appear while consumer-use tape is being used in the search, slow motion or still mode.

SYSTEM CONNECTIONS

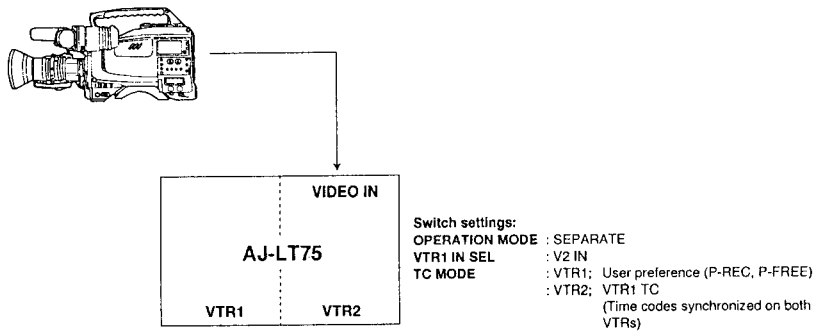


SYSTEM CONNECTIONS

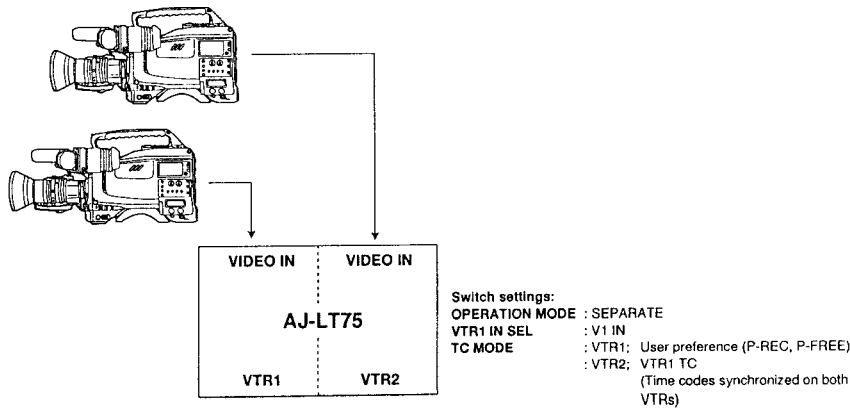
System applications

■ Backup recording using 2 VTRs

1. Recording the same signal on 2VTRs



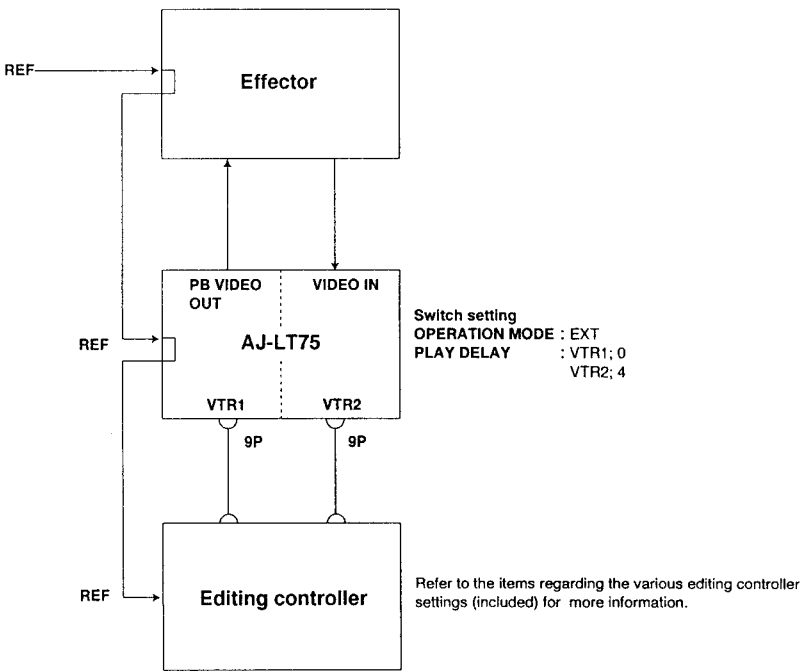
2. Recording different signals on 2 VTRs



SYSTEM CONNECTIONS

System applications

■ Using the unit with an external effector or controller switch settings

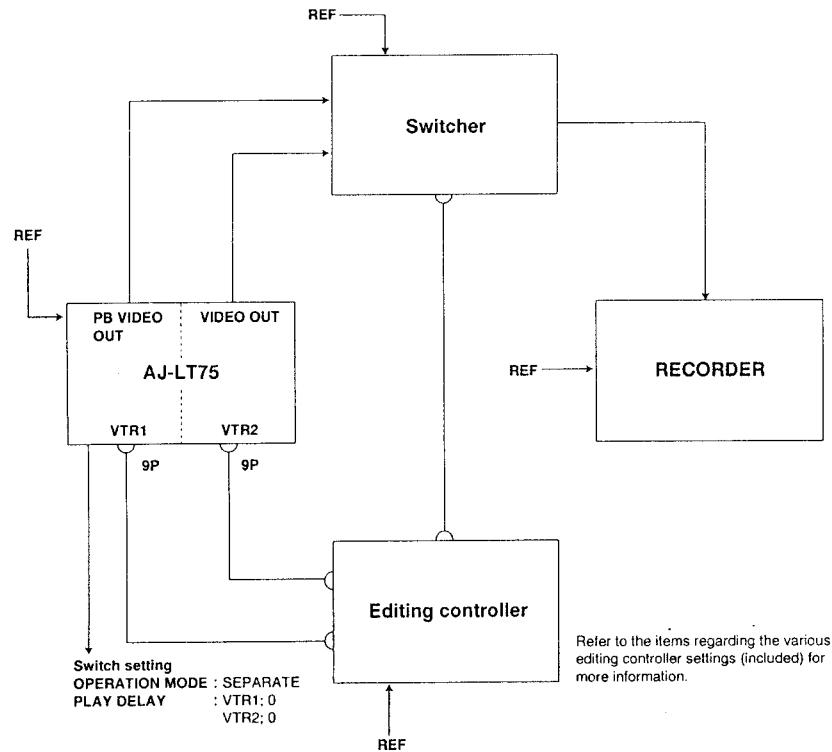


- <Notes>
- VTR1 cannot be used as the editing recorder.
 - Slow motion editing is not supported.

SYSTEM CONNECTIONS

System applications

■ Using two VTRs as source units for AB roll editing



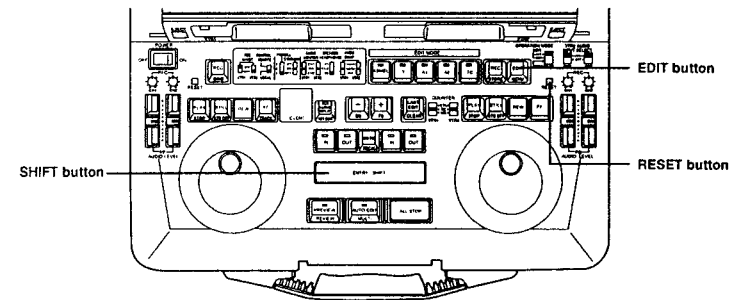
<Note>

Slow motion editing is not supported.

SET-UP MENU OPERATIONS

The set-up of items other than those set using the selector switches are set on the on-screen menu using the time counter display and search dial.

To perform settings with the on-screen menu, press the MENU (SHIFT+MENU) buttons to establish the set-up mode. The setting contents now appear on the display, and the data settings are stored in the laptop's memory.



To transfer the laptop from the regular mode to the set-up menu mode, press the SHIFT and EDIT buttons together. (This cannot be done by remote control, or when editing or recording.)

To change a setting:

- 1 Set the laptop to the jog mode.

Remember that this procedure cannot be performed in the shuttle mode.

- 2 Turn the dial and select the item to be set. (The asterisk "*" moves.)

- 3 While holding down the SHIFT button, turn the dial clockwise or counterclockwise to change the value.

When the IN or OUT button is pressed while the SHIFT button is held down, the setting contents are decremented by IN and incremented by OUT.

If the 1ST EDIT, TC PRESET or UB PRESET item is to be selected, operation moves to the column on the left or right by pressing the FF or REW button while the SHIFT button is held down.

• "TC PRESET" and "UB PRESET" can be selected when set-up menu item No.507 (TC MODE) has been set to "P-REC" or "P-FREE."

To view the menu page by page:

Press the FF or REW button.

Operation moves to the next page when the FF button is pressed; it moves to the previous page when the REW button is pressed. (The cursor moves to the first item in each group of 100.)

To store a setting in the memory:

Press the REC button while the SHIFT button is held down.

To return to the regular mode from the set-up menu mode:

Press the EDIT button while the SHIFT button is held down.

To return (reset) a setting which has been changed to the default setting, press the RESET button and one of the button below.

Press the REW button to cancel the resetting.

Press the PLAY button to reset all the items.

Press the STILL button to reset all the items except SYSTEM.

DETAILED DESCRIPTION OF SET-UP MENUS

BASIC

Item		Setting		Description of setting	V T R 1	V T R 2
No.	Item	No.	Item			
000	DISPLAY SEL	0000 <u>0001</u>	TIME <u>T&STA</u>	This sets the contents of the MONITOR OUT connector and liquid-crystal monitor superimposed display. 0: Only the time is displayed. 1: Both the time and operation mode are displayed.	○	○
001	LCD SUPER	0000 0001	<u>OFF</u> ON	This selects the superimposed display on the liquid-crystal monitor. 0: A superimposed display does not appear on the monitor. 1: A superimposed display appears on the monitor.		○
002	CHARA TYPE	0000 0001	<u>WHITE</u> W/OUT	This selects the type of characters for the VIDEO MONI OUT connector superimposed display and set-up menu display, etc. 0: White characters appear on a black background. 1: White characters with black borders appear.	○	○
003	TAPE TIMER	0000 0001	<u>±12h</u> 24h	This selects whether the 12-hour or 24-hour time system is to be used for the CTL counter display. 0: The 12-hour time system is used for the display. 1: The 24-hour time system is used for the display.	○	○

The underlined number and item are the factory settings.

DETAILED DESCRIPTION OF SET-UP MENUS

OPERATION

Item		Setting		Description of setting	V T R 1	V T R 2
No.	Item	No.	Item			
100	SHTL MAX	0000 <u>0001</u>	X16 <u>X32</u>	This sets the maximum speed in the shuttle mode. 0: 16 times normal tape speed. 1: 32 times normal tape speed.	○	○
101	FF.REW MAX	0000 <u>0001</u>	X32 <u>X60</u>	This sets the maximum fast forward and rewind speed. 0: 32 times normal tape speed. 1: 60 times normal tape speed. <Note> With the DV format, this speed is 32X normal tape speed regardless of this setting.	○	○
102	AUDIO MUTE	0000 0001	<u>OFF</u> ON	This sets the status while audio signals are output when the mode has changed from STOP or search to PLAY. 0: The time taken until the sound is output is reduced. 1: The sound is output after the mode is fully established.	○	○
103	S/F/R/ EE SEL	0000 0001	EE <u>TAPE</u>	This sets whether to establish the EE mode or VV mode when the laptop is in the STOP, FF or REW mode. 0: EE mode is established. 1: VV mode is established.		○
104	STOP MODE	0000 <u>0001</u>	REC <u>PB</u>	This selects the mode when VTR1 is in the STOP mode. 0: The digital circuits serve as the REC system. The time taken entering REC mode is reduced. 1: The digital circuits serve as the PB system. The time taken entering PB mode is reduced.	○	
105	VTR1 IN SEL	0000 0001	<u>V1 IN</u> V2 IN	This selects whether V1 IN or V2 IN is to be used for the VTR1's video/audio input. 0: VTR1 IN serves to input the signals to VTR1. 1: VTR2 IN serves to input the signals to VTR1.	○	
106	FORMAT SEL	0000 0001	<u>DVCPRO</u> DV	This selects the format when an L size cassette is used. 0: DVCPRO mode 1: DV mode	○	○
107	POSTROLL SEL	0000 <u>0001</u> 0002 0003	0.5s <u>1s</u> 2s 3s	Selects the postroll time (in 1-second increments). 0: 0.5 sec. 1: 1 sec. 2: 2 sec. 3: 3 sec.		○

The underlined number and item are the factory settings.

DETAILED DESCRIPTION OF SET-UP MENUS

OPERATION

Item		Setting		Description of setting	V T R 1	V T R 2
No.	Item	No.	Item			
108	HUMID OPE	<u>0000</u> 0001	<u>OFF</u> ON	This selects whether condensation is to be ignored when it has formed and operation is to be continued. 0: Operation is disabled. 1: Operation is enabled. Although operation is still possible even when condensation has formed, the unit's operation cannot be guaranteed. <Note> Since the tape may be damaged or other trouble may occur when "1: Operation is enabled" is selected, "0: Operation is disabled" is normally selected.		○
109	SEARCH ENA	<u>0000</u> 0001	<u>DIAL</u> KEY	This selects whether the direct search operation is to be performed. DIAL: Direct search mode KEY: No direct search mode (The search dial is operable in the STILL mode only.)		○
110	AUTO REW	<u>0000</u> 0001	<u>OFF</u> ON	This selects whether the tape is automatically rewound to the beginning when the end of the tape is detected in the PLAY, REC, or SHTL modes. 0: Transport stops at the end of the tape. 1: The tape is automatically rewound to the beginning.	○	○
111	ALL STOP SEL	<u>0000</u> 0001	<u>STOP</u> STILL	This is used to select the mode to which the unit is to be set when the ALL STOP button is pressed. 0: The unit is set to the STOP mode. 1: The unit is set to the still-picutre mode (SHTL +0.0, JOG STILL).		○
112	CAP. LOCK	<u>0000</u> <u>0001</u>	4F <u>8F</u>	This is used to select the capstan lock mode when the OFF/ON/CF switch has been set to CF. 0: 4F mode is established. 1: 8F mode is established.		○

The underlined number and item are the factory settings.

DETAILED DESCRIPTION OF SET-UP MENUS

INTERFACE

Item		Setting		Description of setting	V T R 1	V T R 2
No.	Item	No.	Item			
200	ID SEL	<u>0000</u> 0001	<u>OTHER</u> DVCPRO	This selects the ID information which is to be returned to the controller. 0: 20 25H 1: The ID (F0 33H) unique to DVCPRO is returned.	○	○
201	LOCAL ENA	<u>0000</u> <u>0001</u>	DIS <u>ST&EJ</u>	This selects the switches which can be operated on the front panel when the REMOTE/LOCAL switch is at REMOTE. 0: None of the switches or buttons can be operated. 1: Only the STOP (ALL STOP) and EJECT buttons can be operated.	○	○

The underlined number and item are the factory settings.

DETAILED DESCRIPTION OF SET-UP MENUS

EDIT

Item		Setting		Description of setting	V T R 1	V T R 2
No.	Item	No.	Item			
300	SERVO REF	<u>0000</u> 0001	<u>AUTO</u> EXT	This selects the signal with which the servo is synchronized. 0: During recording or editing, the servo is synchronized with the input signal; during playback, it is synchronized with the REF signal. 1: The servo is synchronized with the REF signal at all times. <Note> "1" (EXT) cannot be selected on the VTR1 side.	○	○
301	PLAY DELAY	<u>0000</u> ↓ <u>0004</u> ↓ 0015	<u>0</u> (VTR1) ↓ <u>4</u> (VTR2) ↓ 15	This sets the PLAY delay time in 1-frame increments. <Note> When VTR1 or VTR2 is connected to the external unit and controlled from external source, set the PLAY DELAY setting value in accordance with the system connection.	○	○
302	AUD EDIT IN	0000 <u>0001</u>	CUT <u>FADE</u>	This selects how the audio edit IN point is to be linked. 0: Cut processing 1: Fade processing		○
303	AUD EDIT OUT	0000 <u>0001</u>	CUT <u>FADE</u>	This selects how the audio edit OUT point is to be linked. 0: Cut processing 1: Fade processing		○
304	BEEP	0000 0001 <u>0002</u>	OFF ENTRY <u>ALL</u>	This sets whether a confirmation beep is to be output. 0: No beep is output. 1: A beep is output with entries, errors and warnings. 2: A beep is output with entries, errors and warning and when an edit IN or OUT point is passed.		○
305	AUTO ENTRY	<u>0000</u> 0001 0002	OFF REC <u>ALL</u>	This sets whether the value of the previous edit OUT point is to be registered automatically as the next edit IN point after automatic editing. 0: Value is not automatically set. 1: Value is automatically set for VTR2 only. 2: Value is automatically set for both VTR1 and VTR2.		○
306	SV-UNLK EDIT	0000 <u>0001</u>	EDIT <u>ABORT</u>	This selects whether to suspend editing when the servo lock does not engage. 0: Editing is not suspended. 1: Editing is suspended.		○

The underlined number and item are the factory settings.

DETAILED DESCRIPTION OF SET-UP MENUS

EDIT

Item		Setting		Description of setting	V T R 1	V T R 2
No.	Item	No.	Item			
307	SYNCHRO EDIT	0000 <u>0001</u>	OFF <u>ON</u>	This sets whether to suspend editing when phase synchronization is not pos- sible with a +/-0 frame accuracy while SYNCHRO is set to ON. 0: Phase synchronization is not suspended. 1: Phase synchronization is suspended.		○
308	SYNCHRO	<u>0000</u> 0001	<u>VTR1</u> VTR2	This selects the deck to be phase-synchronized. 0: VTR1 is phase-synchronized. 1: VTR2 is phase-synchronized.		○
309	EDL AUTO CLR	<u>0000</u> 0001	OFF <u>ON</u>	This sets whether the first edit is to be cleared and the subsequent edits can be overwritten when the maximum number of edits have been registered. 0: Edits cannot be overwritten. 1: Edits can be overwritten.		○
310	AFTER CUE-UP	<u>0000</u> 0001	STOP <u>STILL</u>	This selects the laptop's mode upon completion of a cue-up operation. 0: STOP mode 1: Still picture (SHTL+0.0, JOG STILL) mode		○
311	1ST EDIT DUR	<u>0000</u> 0001	<u>26s</u> T-END	This sets the black burst signal recording duration in the 1ST EDIT mode. 0: A black burst signal is recorded for 26 seconds, then the tape is rewound for 3 seconds and stops. The point at which the tape stops is set as the 1ST EDIT PRESET. 1: A black burst signal is recorded until the end of the tape or until the ALL STOP button is pressed. If the signal is recorded until the end of the tape, the tape is then rewind automatically to the 1ST EDIT PRESET position.		○
312	1ST EDIT			This sets the preset value in the first edit mode. 00:00:00:00 to 23:59:59:24		○

The underlined number and item are the factory settings.

DETAILED DESCRIPTION OF SET-UP MENUS

TAPE PROTECT

Item		Setting		Description of setting	V T R 1	V T R 2
No.	Item	No.	Item			
400	STILL TIMER	0000 0001 0002 0003 0004 0005 0006 0007 <u>0008</u>	0.5s 5s 10s 20s 30s 40s 50s 1min 2min	This selects the time taken before the tape protection mode is established when the laptop has been left standing in the stop or search STILL (JOG/VAR/SHTL) mode. (Units: s: seconds min: minutes) <Note> In the case of the DV format, the time will remain at 10 seconds even if a value higher than 10 seconds has been selected. However, operation will last for up to 2 minutes on the selection screen.	○	○
401	SRC PROTECT	<u>0000</u> 0001	<u>STEP</u> HALF	This selects the operation in the tape protection mode when the laptop has been left standing in the STILL mode. 0: STEP (STEP FWD in STILL mode) 1: Half loading <Note> When STEP FWD has been selected, operation is automatically transferred to half loading after the laptop has been left standing in the STILL mode for a total of 30 minutes with the DVCPRO format or for a total of 1 minute with the DV format.	○	○

The underlined number and item are the factory settings.

DETAILED DESCRIPTION OF SET-UP MENUS

TIME CODE

Item		Setting		Description of setting	V T R 1	V T R 2
No.	Item	No.	Item			
500	VITC POS-1	0000 <u>0008</u> 0010	7L 11L 21L	This sets the position where the VITC signal is to be inserted. (The same line as that selected for 501:VITC POS-2 cannot be selected.)	○	○
501	VITC POS-2	0000 <u>0008</u> 0010	7L 13L 21L	This sets the position where the VITC signal is to be inserted. (The same line as that selected for 500:VITC POS-1 cannot be selected.)	○	○
502	VITC BLANK	0000 <u>0001</u>	BLANK <u>THRU</u>	This sets whether the VITC data is to be output to the position which has been selected by 500:VITC POS-1 and 501:VITC POS-2. 0: VITC data is not output. 1: VITC data is output.	○	○
503	TCG REGEN	<u>0000</u> 0001 0002	<u>TC&UB</u> TC UB	This selects the signal to be regenerated when the TCG is in the REGEN mode. 0: Both the time code and user bit are regenerated. 1: Only the time code is regenerated. 2: Only the user bit is regenerated.	○	○
504	BINARY GP	<u>0000</u> 0001 0002 0003 0004 0005 0006 0007	<u>000</u> 001 010 011 100 101 110 111	This sets the status for using the user bit of the time code generated by the TCG. 0: NOT SPECIFIED (character set is not used) 1: ISO CHARACTER (8-bit character set complying with ISO646 and ISO2022 is used) 2: UNASSIGNED-1 (not defined) 3: UNASSIGNED-2 (not defined) 4: UNASSIGNED-3 (not defined) 5: PAE/LINE (SMPTE262M page/line multiplexing system) 6: UNASSIGNED-4 (not defined) 7: UNASSIGNED-5 (not defined)	○	○
505	TCG CF FLAG	<u>0000</u> 0001	<u>OFF</u> ON	This selects whether the CF flag of the TCG is to be used. 0: CF flag is not used. 1: CF flag is used.	○	○

The underlined number and item are the factory settings.

DETAILED DESCRIPTION OF SET-UP MENUS

TIME CODE

Item		Setting		Description of setting	V T R 1	V T R 2
No.	Item	No.	Item			
507	TC MODE	0000 0001 0002 0003 0004	P-REC P-FREE <u>L-REG</u> E-VITC VTR1 TC*	This selects whether the time code generated by the internal TCG or an external time code is to be used. 0: Internal TC is set to PRESET and used in the REC RUN mode. 1: Internal TC is set to PRESET and used in the FREE RUN mode. 2: Internal TC is used in the REGEN mode. 3: VITC of input video signals is used in the REGEN mode. 4: The time code of the sub-code is used in the REGEN mode when the OPERATION MODE switch is in the INT mode.	○	○
508	TC PRESET			This sets the TCG (time code generator) value. 00:00:00:00 to 23:59:59:24	○	○
509	UB PRESET			This sets the user bit value. 00 00 00 00 to FF FF FF FF	○	○
510	REGEN MODE	0000 0001 0002 0003	<u>AS&IN</u> ASSEM INSRT SW	This sets the REGEN mode during assemble editing or time code (TC) insert editing (the mode for changing the time codes) if the "P-REC" or "P-FREE" setting has been selected from set-up menu item No. 507 (TC MODE). 0: REGEN takes place during assemble editing and insert editing. 1: REGEN takes place during assemble editing. 2: REGEN takes place during insert editing. 3: The setting of set-up menu item No. 507 (TC MODE) is followed. If the "P-REC" or "P-FREE" setting has been selected, recording is forced to take place from the PRESET value.		○

*The VTR1 TC setting can be performed only for VTR2.

DETAILED DESCRIPTION OF SET-UP MENUS

VIDEO

Item		Setting		Description of setting	V T R 1	V T R 2
No.	Item	No.	Item			
600	INPUT C KILL	0000 <u>0001</u>	B/W <u>AUTO</u>	This selects the colour killer processing for the video input signals. 0: B/W processing is conducted forcibly. 1: Automatic processing is conducted.	○	○
601	OUT VSYNC	0000 0001	<u>N-VE</u> VF	This selects whether the internal sync signal is to be floated so that H is aligned with the video output signal and V is aligned with the video input signal during EE. 0: Internal sync signal is not floated. 1: Internal sync signal is floated.		○
602	V-MUTE SEL	0000 <u>0001</u>	N-MUTE <u>LOW_RF</u>	This selects where the video signals are to be muted during playback under low RF conditions or when the servo lock is disengaged. 0: Signals are not muted. 1: Signals are muted.	○	○
605	FREEZE SEL	0000 0001	<u>FIELD</u> FRAME	This selects freeze for the still picture either during play or when operation is transferred from play to stop. 0: Field freeze 1: Frame freeze (Field freeze is set at all times when the laptop is in a mode other than the one mentioned above.)	○	○
606	IN FRM DET	0000 <u>0001</u>	FORCE <u>AUTO</u>	This selects frame detection for the input signals. 0: Frame detection is conducted at all times. 1: Frame detection is prohibited only with NON-STD signals.	○	○

The underlined number and item are the factory settings.

DETAILED DESCRIPTION OF SET-UP MENUS

AUDIO

Item		Setting		Description of setting	V T R 1	V T R 2
No.	Item	No.	Item			
700	CH1 IN LV	0000 0001 0002	4dB 0dB -20dB	This selects the audio input (CH1) reference setting.	○	○
701	CH2 IN LV	0000 0001 0002	4dB 0dB -20dB	This selects the audio input (CH2) reference setting.	○	○
702	CH1 OUT LV	0000 0001 0002	4dB 0dB -20dB	This selects the audio output (CH1) reference setting.	○	○
703	CH2 OUT LV	0000 0001 0002	4dB 0dB -20dB	This selects the audio output (CH2) reference setting.	○	○
704	EMPHASIS	0000 001	OFF ON	This sets the emphasis to ON or OFF.	○	○
705	REC CUE	0000 0001 0002	CH1 CH2 CH1+2	This selects the input signal to be recorded for CUE. 0: Audio input CH1 signal 1: Audio input CH2 signal 2: Audio input CH1 and CH2 mixed signal	○	○
706	CUE INSERT	0000 0001	OFF ON	This selects whether CUE is to be inserted during AUDIO INSERT. 0: CUE is not inserted and pre-recorded signals are left. 1: CUE is inserted.		○

The underlined number and item are the factory settings.

DETAILED DESCRIPTION OF SET-UP MENUS

AUDIO

Item		Setting		Description of setting	V T R 1	V T R 2
No.	Item	No.	Item			
707	DV OUTPUT	0000 0001 0002	ST1 ST2 ST1+2	This selects the audio CH1 and CH2 outputs during DV format playback. 0: The CH1 track is output for CH1 and CH2 track for CH2. 1: The CH3 track is output for CH1 and CH4 track for CH2. 2: The CH1 and CH3 tracks are mixed and output to CH1, and the CH2 and CH4 tracks are mixed and output to CH2.	○	○
708	PB FADE	0000 0001 0002	AUIQ CUT FADE	This selects how the audio edit points (IN, OUT) are to be processed during playback. 0: Processing accords with status during recording. 1: Forced cut editing 2: Forced fade editing	○	○
709	AUDIO SLOW	0000 0001 0002 0003	CUE PCM DIRPCM AUIQ	This sets the audio output mode during slow playback. 0: Forced cue mode 1: PCM mode 2: Intermittent PCM mode 3: AUTO mode <Note> When "0: Forced cue mode" or "1: PCM mode" is selected, the video and audio timing may be off by several frames.	○	○
710	SHTL AUDIO	0000 0001	OFF CUE	This selects whether the cue audio is to be output to LINE OUT in the shuttle mode. 0: Cue audio is not output. 1: Cue audio is output.	○	○
711	AUTO MONI	0000 0001	V1+V2 AUTO	This selects the signal to be output to the speaker/headphone. 0: Processing accords with the SPEAKER/HEADPHONES switch. 1: The signal of the VTR operated last is output. <Notes> • If the OPERATION MODE switch set to the "SEPARATE" position, output is fixed at "V1 + V2." • If the CONTROL switch set to the "REMOTE" position, output is fixed at "V1 + V2."		○
712	DV PB ATT	0000 0001	OFF ON	This selects the output level while a DV tape is being played back. OFF: Output level is not reduced. ON: Output level is reduced.	○	○

The underlined number and item are the factory settings.

DETAILED DESCRIPTION OF SET-UP MENUS

SYSTEM

Item		Setting		Description of setting	V T R 1	V T R 2
No.	Item	No.	Item			
800	SCH COARSE	0000 0001 0002 0003	0 90 180 270	SCH phase adjustment: in 90-degree units (SCH changes; H phase does not change.)	○	○
801	SCH FINE	0000 0128 0225	-128 0 127	SCH phase adjustment: total variable range of ± 45 degrees or more (SCH changes; H phase does not change.)	○	○
802	LCD CONT	0000 0030 0060	-30 0 30	This adjusts the LCD contrast.	○	○
803	LCD COLOUR	0000 0030 0060	-30 0 30	This adjusts the LCD colour.	○	○
805	V IN SEL	0000 0001	CMPST CMPNT	This is used to select the video signals to be output. 0: Composite signals are output. 1: Component signals are output.	○	○
806	V OUT SEL	0000 0001	CMPST CMPNT	This is used to select the video signals to be input. 0: Composite signals are input. 1: Component signals are input.	○	○

The underlined number and item are the factory settings.

PREPARATION OF EDITING TAPE

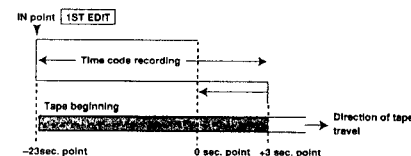
The preparation of the tape for editing differs depending on whether assemble or insert editing is to be performed. A colour bar or black burst signal must be supplied to the recorder, and the control signal (CTL) must be recorded on the tape before any attempt is made to edit. The CTL is recorded beforehand using a signal generator, for instance.

For assemble editing, the control signal is recorded at the start of the editing tape. (1st edit)

- 1 Press the IN button while holding down the ENTRY button to register the IN point of VTR2.

The registered position is set 23 seconds before the time which is set by the 1ST EDIT preset value. When the 1ST EDIT (SHIFT+AUDIO SPLIT) buttons are then pressed, recording commences, recording proceeds up to a point 3 seconds beyond the IN point, and the tape is automatically rewound to the 0-second point where it stops.

When the first edit function is used, black burst signals are always recorded as the video signals and the sound is muted.



For insert editing, the control signal must be recorded from the start to the end of the editing tape.

- If the T-END setting is selected for set-up menu item No. 311 (1ST EDIT DUR), 1ST EDIT operation continues to the end of the tape or until the ALL STOP button is pressed. (Black burst and time code signals are recorded.)

To record the time code together with the video signals onto a new tape:

- 1 Insert the tape into the recorder.

- 2 While holding down the SHIFT button, press the MENU button to establish the set-up mode.

- 1) Select set-up item No.507 (TC MODE), and set it to P-REC (0000).
- 2) Select set-up item No.508 (TC PRESET), and set the default value of the time code.

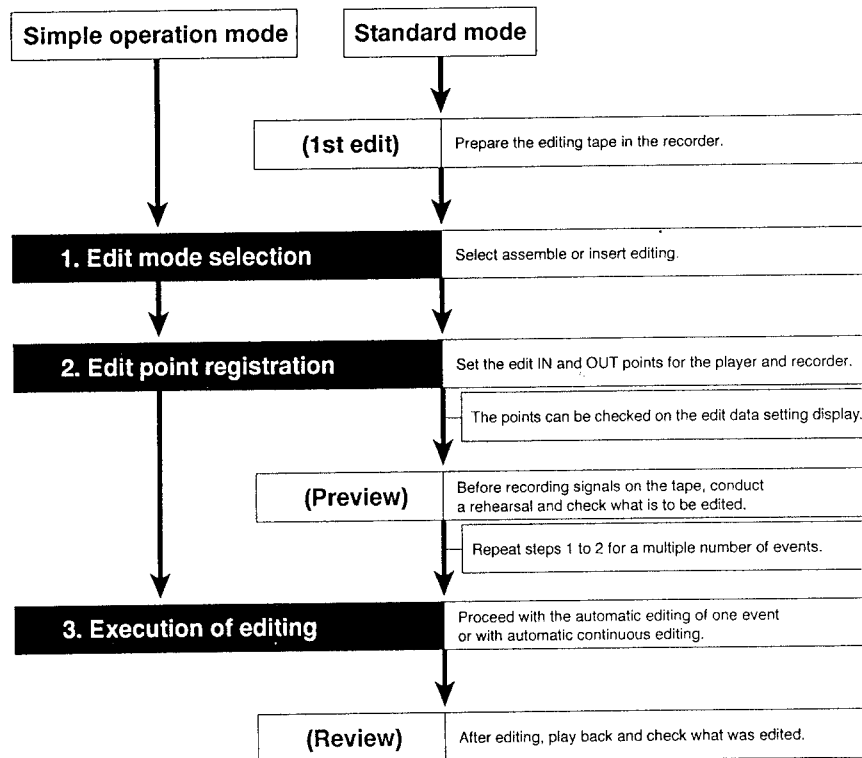
- 3 Record the time code.

When recording the time code onto a new tape, press the PLAY button while holding down the recorder's REC button.

- 4 Press the ALL STOP button to stop the recording.

BASIC FLOW OF EDITING OPERATIONS

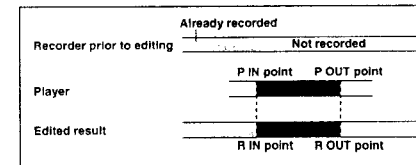
Editing operations basically involve the following steps.



TYPES OF EDIT MODES AND ILLUSTRATIONS

■ Assemble edit mode

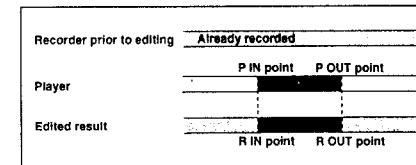
Signals are recorded continuously and successively from the start of usually a new tape (used tapes can also be used). This is the mode commonly used to make master tapes.



• In order to maintain the continuity of the time codes on the tape in the recorder, set set-up menu item No. 507 (TC MODE) to "I-REG". When the setup menu No.507 is set to "P-REC" or "P-FREE", set set-up menu item No. 510 (REGEN MODE) to "AS&IN" or "ASSEM."

■ Insert edit mode

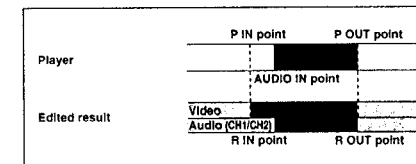
A different source is recorded on part of a pre-recorded tape. Four types of signals—V (video), A1 (audio CH1), A2 (audio CH2) and TC (time code)—can be recorded separately or altogether. The signals must be recorded on the recorder's tape from beginning to end.



• If it is necessary to maintain the continuity of the time codes on the tape in the recorder during TC insertion, set set-up menu item No. 507 (TC MODE) to "I-REG". When the setup menu No.507 is set to "P-REC" or "P-FREE", set set-up menu item No. 510 (REGEN MODE) to "AS&IN" or "INSRT."

■ Audio split editing

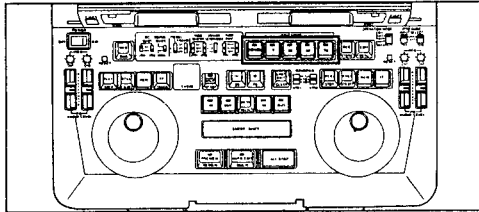
A technique which offsets the audio edit points can be used.



It is also possible to place the audio IN point ahead of the video IN point.

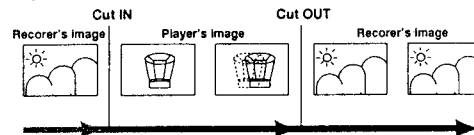
CUT EDITING PROCEDURE

1. Edit mode selection



- ① **For assemble editing:** Press the assemble (ASMBL) button. Record the video, audio (CH1, CH2) and time code simultaneously.
- ② **For insert editing:** Press the insert buttons (V, A1, A2 and TC). These buttons correspond respectively to the video and audio signals. Press all the buttons for the signals which are to be edited.
- ③ To clear a mode, press the same button again.

Cut editing is a way of editing which uses a method to switch in an instant from one screen to another.



- * With insert editing, the images and sound can be edited separately.

Search dial

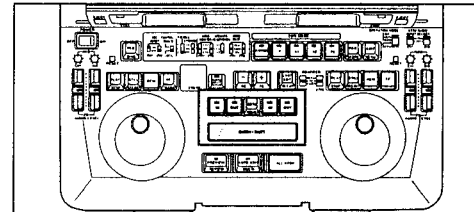


- Turning the dial without pressing it establishes the shuttle mode: depending on the direction in which the dial is turned and the angle to which it has been turned, a tape can be played back across a range from 16 or 32 times faster than the normal tape speed in the forward direction to 16 or 32 times faster than the normal tape speed in the reverse direction (according to the set-up menu item No.100 setting). A still picture is produced at the centre click-stop position (natural stop position).
- Pushing the dial in and turning it establishes the jog mode: depending on the direction in which the dial is turned and the speed at which it is turned, a tape can be played back across a range from 1 times faster than the normal tape speed in the forward direction to 3 times faster than the normal tape speed in the reverse direction. A still picture is produced when the dial is no longer turned.

CUT EDITING PROCEDURE

2. Edit point registration

Search the scene to be edited using the search dial, and register the edit IN and OUT points using the IN and OUT buttons.



- 1 Play back the tape on the VTR (player or recorder) which is to be used to setting the edit points, and search the desired scene.
- 2 While holding down the ENTRY button at the desired scene, press the IN or OUT button corresponding to the edit point which is to be set.
Depending on the edit point now set, the IN or OUT LED lights on the time counter display of the player or recorder. At the same time, if an edit point is not registered, the corresponding LED flashes.
- 3 Repeat steps 1 and 2 until three of the four IN and OUT points (two for the player and two for the recorder) have been set. The edit point registration is completed once the player's IN and OUT points and the recorder's IN point are set. The recorder's OUT point is automatically calculated when editing is executed.

To produce a still picture of the desired scene:

During normal playback: press the STILL button.

During playback in the shuttle mode, return the search dial to the centre clickstop position.

During playback in the jog mode, stop turning the search dial.

When still picture playback continues beyond a specific period of time:

When the time set in set-up menu item No.400 (STILL TIMER) has elapsed, operation is automatically transferred to the tape protection mode.

CUT EDITING PROCEDURE

Edit point checking, revising and clearing

To check the edit points:

Press the IN or OUT button of the VTR on whose tape the edit points are to be checked. The registered edit point now appears on the counter display.

To check the edit point image:

Press together the IN or OUT button and GO TO button of the VTR on whose tape the image of the edit points is to be checked. The VTR accesses the registered edit point, and its image appears on the monitor.

- If the VTR does not access the edit point, it means that the edit point has not been registered.

To check the total time:

To check the total time of each edit, press the IN and OUT buttons together. The edit time now appears on the counter.

To check the total time of the entire editing, press the TOTAL button.

The total time is displayed while this button is held down.

To revise an edit point in 1-frame increments

Press the "+" or "-" button while holding down the IN or OUT button.

The "+" button increases the registered edit point in 1-frame increments.

The "-" button decreases the registered edit point in 1-frame increments.

To clear an edit point

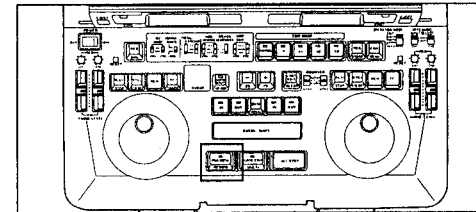
Press the corresponding RESET button while holding down the IN or OUT button of the edit point which is to be cleared.

CUT EDITING PROCEDURE

(Preview)

Rehearsal playback before proceeding with editing

When the PREVIEW button is pressed, the event just registered (event whose number appears on the display) will be previewed.



When preview is executed:

- The recorder's images are played back from the recorder's preroll point to the IN point and from the OUT point onward.
- The images to be edited from the IN point to OUT point appear on the recorder's monitor.
- The tapes in both the player and recorder travel as far as a point 2 seconds after the OUT point and stop. In the assemble mode, the tape in the recorder travels as far as a point 1 second after the IN point and stops while the recorder's images are not played back even when the player's tape passes the OUT point.

To start preview again from the beginning while preview is in progress:

Press the PREVIEW button.

To reset the OUT point more toward the tape beginning while preview is in progress:

Press the recorder OUT button while holding down the ENTRY button at the scene where the OUT point is to be registered.

- In the insert mode, the recorder's tape position where the above two buttons were pressed is now registered as the new OUT point, and preview is concluded.
- In the assemble mode, the new OUT point is automatically calculated and registered.

To suspend preview and execute automatic editing:

Press the AUTO EDIT button.

To recall the contents of the previous preview:

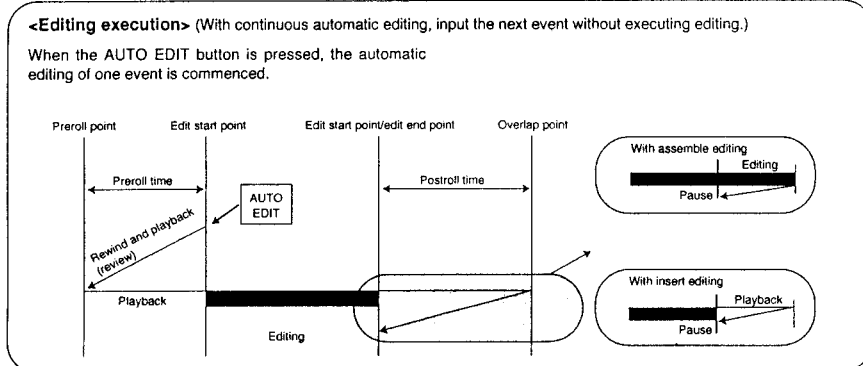
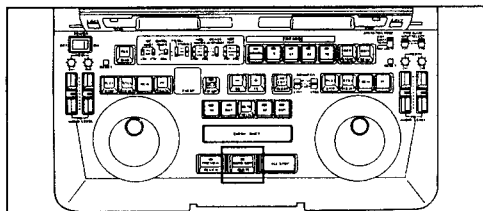
Press the LAST EDIT button.

Each time this button is pressed, the contents of the current preview and the previous preview are toggled.

CUT EDITING PROCEDURE

3. Editing execution

Once the necessary edit point settings have been registered, one event will be automatically edited if editing is now performed. After editing has been performed, what has been edited can be checked using the "review" function.

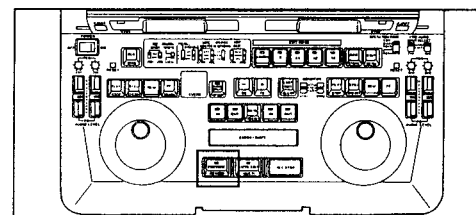


- * After editing has been executed, the EVENT No. is added, and what has been the recorder's edit OUT point is automatically calculated as the edit IN point. [However, this is only when an automatic setting is used for set-up menu item No.305 (AUTO ENTRY).]
- * To end editing at any time, press the AUTO EDIT button. The position where the button was pressed is registered as the OUT point.

CUT EDITING PROCEDURE

(Review)

When the REVIEW (SHIFT+PREVIEW) button is pressed, already edited event is played back.



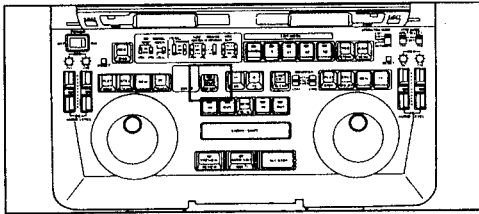
To suspend the review, press the ALL STOP button.

<Note>

Review can be performed immediately after editing is completed. Note that review cannot be performed if the unit is transferred to another mode or if one of its function buttons is pressed.

AUDIO SPLIT EDITING PROCEDURE

In the insert edit mode, the audio IN point can be offset from the video IN point for editing.



- 1 Select the channel for insert editing.
- 2 Register the video edit IN points of the player and recorder.
- 3 Press the AUDIO SPLIT button. Check that its lamp has lighted. The IN lamps on the time counters of the player and recorder flash.
- 4 Search the player's audio IN point, and press the player's IN button while holding down the ENTRY button. Once the IN point has been registered, the IN lamp has lighted.
- 5 Press the AUDIO SPLIT button. The AUDIO SPLIT lamp flashes.
- 6 Register the OUT point of the player or recorder.
- 7 Press the PREVIEW button to preview the points.
- 8 Press the AUTO EDIT button.

Revising an edit IN point

Check that the AUDIO SPLIT lamp has lighted, and repeat steps 4 and 5.

Displaying the audio split amount

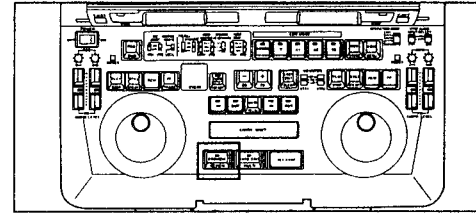
Press the IN and OUT buttons together while the AUDIO SPLIT lamp is lighted. The difference between the audio split IN point and video IN point is displayed on the time counter.

While the AUDIO SPLIT lamp is lighted, the audio split IN and video OUT points cannot be revised simultaneously by pressing the "+" or "-" button.

<Note>

If the AUDIO SPLIT lamp flashes, it means that the audio split IN point has been registered.

EDITING BY EDIT IN POINT SETTING ONLY



- 1 Search the edit IN points of the player and recorder.
- 2 Press the PREVIEW button.
The position where the button was pressed is registered as the IN point, and this point is previewed.
- 3 Press the recorder's OUT button while holding down the ENTRY button at the OUT point position.
The OUT point is registered and the player and recorder stop in about 1 second in the assemble edit mode while and in about 2 seconds in the insert edit mode.
- 4 Press the AUTO EDIT button.
Editing now commences.

When executing editing without preview

Press the AUTO EDIT button instead of the PREVIEW button in step 2. At the position where editing is to be completed, press the AUTO EDIT button.

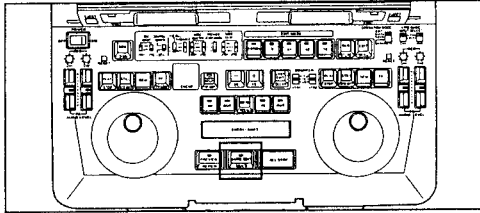
STILL PICTURE EDITING

- 1 Register the IN point and OUT point of the player (VTR1) as the same point.
 - These points can be registered as the same point by simultaneously pressing the IN button, OUT button and SHIFT/ENTRY button of the player (VTR1).
- 2 Set and register both the IN point and OUT point of the recorder (VTR2).
 - Open-ended execution is possible even when the IN point alone is registered.
- 3 Press the AUTO EDIT button to execute editing.
The still picture of the player (VTR1) at the point registered in step 1 is now edited.

<Note>

The still picture editing can be operated only when the OPERATION MODE switch is set to "INT."

AUTO TAG EDITING



Scenes can be edited in succession simply by registering the player's edit IN point.

Since the recorder's tape is stopped at the edit OUT point, editing can be conducted merely by registering the player's edit IN point.

- 1 Set set-up item No.305 (AUTO ENTRY) to REC.
- 2 When the editing is completed, search the player's IN point.
- 3 Press the AUTO EDIT button.
Editing now commences.
- 4 At the edit OUT point, press the AUTO EDIT button.
Editing is now completed.

TRACK FUNCTION

This function efficiently sets the player's edit points in accordance with any change which is made in the recorder's edit IN point.

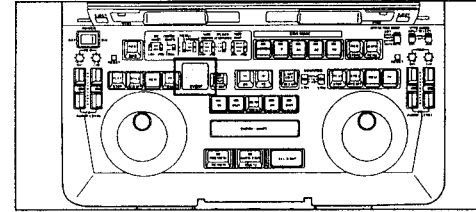
- 1 Change the IN point of the recorder (VTR2).
- 2 Press the FF button on VTR1 while holding down the SHIFT button.
 - The IN point of the player (VTR1) is automatically changed in accordance with the change made in step 1.
 - The colon (:) between the hours and minutes of the on-screen counter changes to a dot (.) to indicate that the track mode is now established.

01:23:45:01 → 01:23:45.01
└ Normal mode └ Track mode
 - The TC (UB or CTL) display on the display tube flashes to indicate that the track mode is now established.
- 3 When the IN point of recorder (VTR2) is changed in the track mode, the IN point of the player (VTR1) is also automatically changed. When an edit point of the player (VTR1) is next changed, the track mode is released, and the normal mode is restored.

<Note>

When "ALL" is selected for the set-up menu item No. 305 (AUTO ENTRY) setting, the IN point of the player (VTR1) will always be changed in accordance with the change made in the IN point of the recorder (VTR2) even when the track mode is not established manually.

EVENT EDITING



*When event editing is performed in the CTL mode, the error may accumulate causing the edit points to deviate considerably. It is therefore recommended that event editing be performed in the TC mode.

Registering events

Events are registered in sequence from event No.01 to 99, 00.

How to register events

- **Auto editing**
Press the AUTO EDIT button.
After editing has been executed, the numbers are automatically incremented by 1.
- **Registering an event without executing editing**
Press the STORE (SHIFT+REC) buttons.
The event numbers are incremented by 1.

When an unregistered event number (displayed as "n") is registered:

The next event number is displayed.

- When an event number is accessed and the edit data is revised, the data which has been revised is registered in the event number concerned.
- When an event is accessed and editing is executed without further ado, the event number remains unchanged.

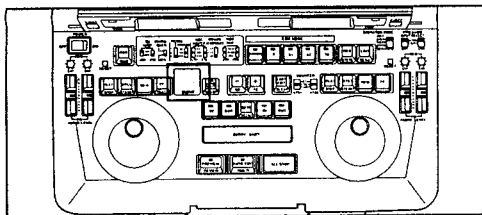
When "00" appears as the event number:

This signifies the one hundredth event.

The overwrite mode (all clear) or overwrite prohibited mode is established depending on the EDL auto clear setting (set-up item No.309 "EDL AUTO CLR").

- **When EDL AUTO CLR is OFF**
The overwrite prohibited mode is established.
"FULL" appears instead of the event number. When any function button is pressed, the event number is returned to "00" and the status which results when the edit data for event No.00 is accessed is established.
- **When EDL AUTO CLR is ON**
The overwrite mode is established.
The event number appears as "n00," and the registered edit data is cleared. A new event can now be registered.

EVENT EDITING



Calling an event

An event registered in the EDL can be accessed.

- **Access an event by designing its event number**
- **Accessing an event prior to the edit now displayed**

Press the BS (SHIFT+"-") buttons.

The last edit is now accessed. To access the desired edit, keep pressing the buttons.

When set-up item No.309 ("EDL AUTO CLR") is set to ON, event No. "00" is accessed if the event has been overwritten for event numbers exceeding "01."

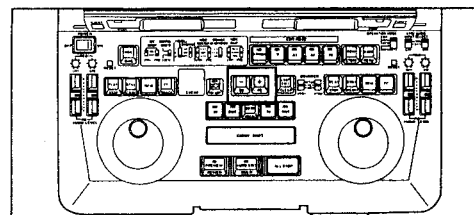
- **Accessing the event ahead of the edit now displayed**

Press the FS (SHIFT+"+") buttons.

To access the desired edit, keep pressing the buttons.

When set-up item No.309 ("EDL AUTO CLR") is set to ON, event No. "00" is accessed if the event has been overwritten for event numbers exceeding "01."

EVENT EDITING



Revising and clearing events

The edit data of registered events can be revised or cleared and cleared events can be restored.

- **Accessing a registered event and revising its data**

1 Press the BS (SHIFT+"-") or FS (SHIFT+"+") buttons.

When the desired event is displayed, revise its data.

2 Press the STORE (ENTRY+REC) buttons.

- **Clearing an event**

1 Press the BS (SHIFT+"-") or FS (SHIFT+"+") buttons.

When the desired event is displayed, revise its data.

2 Press the CLEAR (SHIFT+LAST EDIT) buttons.

"d" now appears in front of the event.

An event accompanied by "d" can be previewed but it cannot be edited or re-registered.

- **Restoring a cleared event**

Press the RECALL (SHIFT+Go To) button.

"d" in the event number is cleared.

Clearing all the events (initializing the EDL)

Press the CLEAR (SHIFT+LAST EDIT) and ALL STOP buttons.

"n01" appears and the data of all the events is cleared.

<Note>

When all the events are cleared, they cannot be restored to their original condition.

Executing event editing

1 Press the MULTI (SHIFT+AUTO EDIT) buttons.

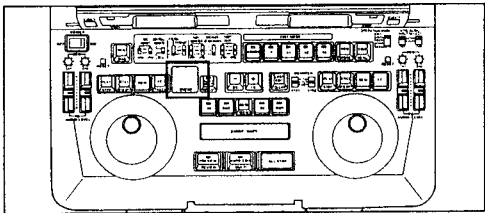
Starting with the event whose number is displayed, the events are now edited on the basis of the registered edit data.

2 To stop the editing at any time, press the ALL STOP button.

To resume editing, press the MULTI (SHIFT+AUTO EDIT) buttons.

To execute editing from a particular event, return to the number of that event.

EDIT DATA MANAGEMENT (EDL)

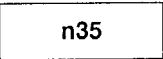


The registered edit data can be managed collectively in the form of an edit decision list (EDL). Edit data managed by numbers can be accessed as and when necessary. The EDL is retained after the power has been turned off.

A maximum of a hundred edits can be managed inside the laptop and accessed as desired. Their data can be changed or cleared.

Displaying event numbers

Event numbers are displayed using two digits.



"n": New edit data which has not been registered in the EDL
"d": Edit data which has been cleared from the EDL

Calling the previously previewed contents

Use the last edit function.
Two sets of edit data prior to the current edit number can be accessed.
Press the LAST EDIT button.
Each time this button is pressed, the current edit data and the previously edited data at the time of preview are accessed.

- If preview has been conducted only once, only one set of edit data is accessed. Furthermore, the last edit function does not work if the preview function has not been used at all.

Clearing all the events (initializing the EDL)

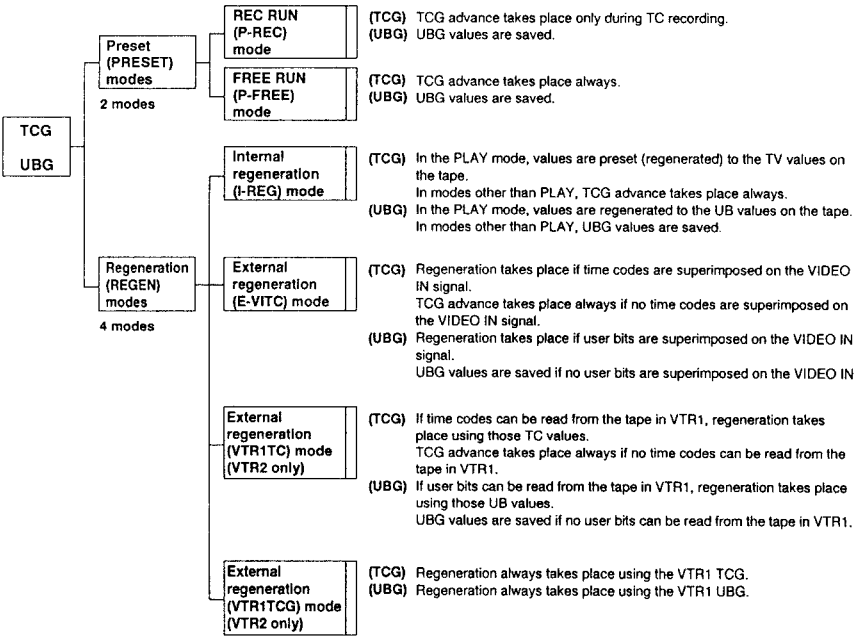
Press the CLEAR (SHIFT+LAST EDIT) and ALL STOP buttons.
"n01" appears and the data of all the events are cleared.

TIME CODES (TC) and USER BITS (UB)

Time code generator (TCG) and user bit generator (UBG) modes

The time code generator (TCG) and user bit generator (UBG) have two main modes: PRESET and REGEN. Within the PRESET mode, there is a REC RUN mode and a FREE RUN mode. Within the REGEN mode, there is an internal regeneration mode and three external regeneration modes.

Details of the various modes are provided below.



Time codes

The time code signals generated by the TCG (time code generator) are recorded on the tape and read by the TCR (time code reader). The time codes indicate the tape's absolute value in increments of hours, minutes and seconds.

TCR 00 : 07 : 04 : 24
Hours Minutes Seconds Frames

User bit

The user bit is a 32-bit (8-digit) information frame contained in the time code signals which is made available to the user. The figures 0 to 9 and the letters ABCDEF can be used for this bit.

TIME CODES (TC) and USER BITS (UB)

Time code generator (TCG) and user bit generator (UBG) mode setting

The set-up menu is used to make time code generator (TCG) and user bit generator (UBG) settings.

For details on using the set-up menu, please refer to the TIME CODE setting (see pages 28 and 29) item numbers 503, 507, and 510. Also, the OPERATION MODE switch (see CONTROLS AND THEIR FUNCTIONS on page 8), which is one of the switches on the front keyboard, is used to make settings.

Setting the mode of the time code generator (TCG) and user bit generator (UBG)

- 1 Set the VTR to the stop mode.
- 2 Switch to the set-up menu.
- 3 Set item No. 503 (TGN REGEN), item No. 507 (TC MODE), and item No. 510 (REGEN MODE) to match the desired mode.
Use the OPERATION MODE switch to make selections.
(Refer to the TCG and UBG Mode Table on the following page for more information on setting items.)
- 4 To use TCG CF (colour framing) flags, set item No. 505 (TCG CF FLAG) to ON (0001).
- 5 To use TCG special bit flags, set item No. 504 (BINARY GP).

<Note>

The settings for item No. 505 (TCG CF FLAG) and item No. 504 (BINARY GP) are valid only if the P-REC mode or P-FREE mode (which are listed in the TCG and UBG Mode Table on the following page) have been selected, or during first edit operation.

Presetting the time code generator (TCG) and user bit generator (UBG) values

- 1 Set the VTR to the stop mode.
- 2 Switch to the set-up menu.
- 3 Set item No. 508 (TC PRESET) and item No. 509 (UB PRESET) to the desired values.

<Note>

If the P-REC mode or P-FREE mode (which are listed in the TCG and UBG Mode Table on the following page) have been selected, settings can be made for item No. 508 (TC PRESET) and item No. 509 (UB PRESET).

<Note>

If the unit is controlled via the external REMOTE terminal (9-pin) in order to perform editing, editing may take place in the MANUAL EDIT mode rather than the AUTO EDIT mode, depending on the controller being used. Therefore, item No. 507 (TC MODE) should be set to P-FREE (0001).

TIME CODES (TC) and USER BITS (UB)

Time code generator (TCG) and user bit generator (UBG) mode table

1) AUTO EDIT mode (VTR2 only)

Menu No.510 REGEN MODE	VTR MODE	Menu No.507 TC MODE	OPERATION MODE switch	Menu No.503			
					TC&UB	TC	UB
AS&IN	ASSEMBLE or INSERT			TCG	I-REG	I-REG	P-FREE
				UBG	I-REG	P-FREE	I-REG
ASSEM	ASSEMBLE			Same as REGEN MODE = AS&IN			
	INSERT			Same as REGEN MODE = SW			
INSRT	ASSEMBLE			Same as REGEN MODE = SW			
	INSERT			Same as REGEN MODE = AS&IN			
SW		P-REC		TCG	P-REC		
				UBG	P-REC		
		P-FREE		TCG	P-FREE		
				UBG	P-FREE		
		I-REG		TCG	I-REG	I-REG	P-FREE
				UBG	I-REG	P-FREE	I-REG
		E-VITC	INT	TCG	VTR1TC	VTR1TC	P-FREE
			INT	UBG	VTR1TC	P-FREE	VTR1TC
		EXT or SEP		TCG	E-VITC	E-VITC	P-FREE
				UBG	E-VITC	P-FREE	E-VITC
		VTR1TC	INT	TCG	VTR1TC	VTR1TC	P-FREE
			INT	UBG	VTR1TC	P-FREE	VTR1TC
		EXT or SEP		TCG	VTR1TCG	VTR1TCG	P-FREE
				UBG	VTR1TCG	P-FREE	VTR1TCG

TCG/
UBG
actual
mode

Items in the table above marked with a diagonal line are not related to mode settings.

2) Mode other than AUTO EDIT (VTR1 and VTR2)

Same as menu No. 510 REGEN MODE = SW in the AUTO EDIT mode.

TIME CODES (TC) and USER BITS (UB)

REC SAME function

This function is used to record the same time code and user bit values on VTR1 and VTR2 when both machines are in the record (NORMAL REC) mode. The values from the time code generator (TCG) and user bit generator (UBG) are recorded on both VTR1 and VTR2.

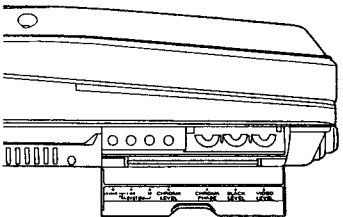
Turning on the REC SAME function

- 1 Set the VTR to the stop mode.
- 2 Switch to the set-up menu.
- 3 Set VTR2 item No. 507 to VTR1TC (0004).
- 4 Set the OPERATION MODE switch on the front keyboard to SEP.

<Note>

The REC SAME function causes the time codes and user bits recorded on VTR1 and VTR2 to match only while both are in the record (NORMAL REC) mode. Therefore, if either VTR is not in the record (NORMAL REC) mode, it is possible that the time codes recorded on which ever VTR is in the record (NORMAL REC) mode may lack continuity. The same user bit values continue to be recorded. Also, VTR2 always uses the TCG and UBG of VTR1 for regeneration, regardless of the setting for item No. 507 (TC MODE).

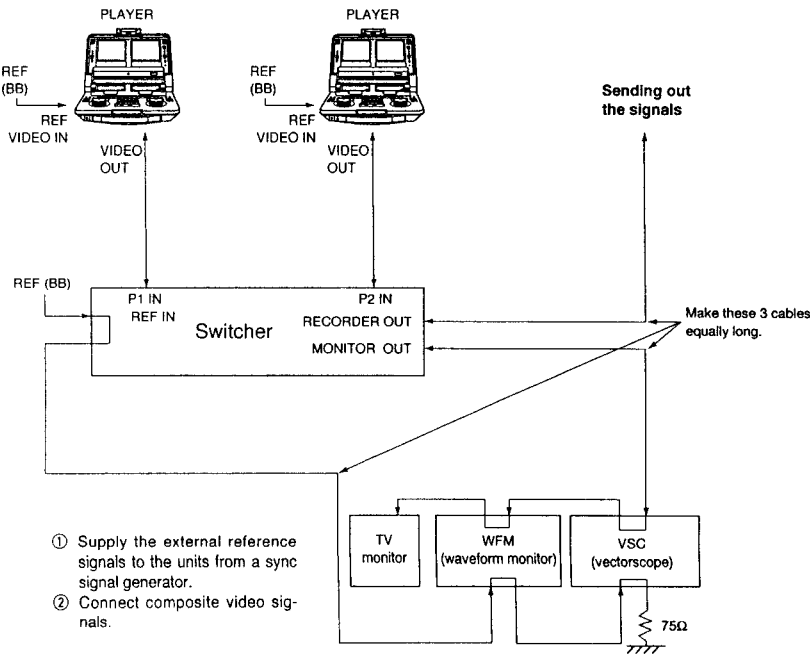
ENCODER ADJUSTMENTS



The video signals (ENCODER OUT) must be adjusted upon completion of the system connections before any signals are transmitted in order to conduct accurate error-free editing.
(This adjustment may have to be repeated whenever a connecting cable is replaced or the connections changed.)


To adjust the encoder using the laptop:

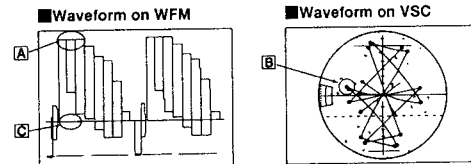
- 1 Connect the units as shown below.



If a waveform monitor and vectorscope are unavailable, observe the images on a monitor and adjust to eliminate any colour shifting.

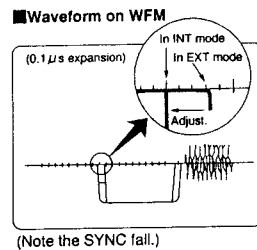
ENCODER ADJUSTMENTS

- 2 Set the REMOTE/LOCAL switch to the position (LOCAL) where the adjustment is to be made.
- 3 Conduct the adjustments using a discrete source unit.
Any deviation in the black level, video level, chroma level or chroma phase will cause colour shifting in the recorder. Adjust them using a discrete player.
- 1) Play back a cassette tape on which standard colour bars have been recorded.
 - 2) Adjust the controls in such a way that the waveform monitor (WFM) and vectorscope (VSC) achieve the following.
- A Video level: Adjust this to 100IRE.
B Chroma level, chroma phase: Adjust the two controls, and place the trace of the vector waveforms at the mark 
C Black level: Adjust so that there is no deviation.

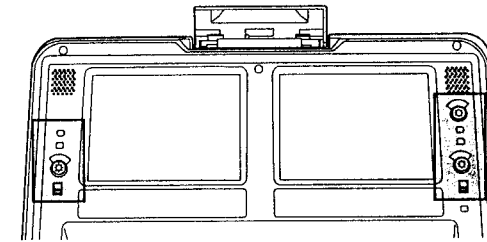


3) Conduct the same adjustments for the connected source unit.

- 4 Adjust the SYSTEM PHASE controls.
- 1) Play back the standard colour bars on VTR1.
 - 2) Adjust the SYSTEM PHASE controls of VTR1.
Adjust so that the waveform monitor (WFM) achieves the following.
 1. In the INT mode, expand the waveform on the WFM to $0.1\mu\text{s}$.
 2. Check the H SYNC position.
 3. Now set the WFM to the EXT mode.
 4. In the EXT mode, adjust the SYSTEM PHASE (H SC FINE, SC COARSE) controls in such a way that the H SYNC signal is aligned with the position in 2.



LIQUID-CRYSTAL TV MONITOR ADJUSTMENTS



Adjustment in display section

The brightness can be adjusted in the display section.

To adjust the brightness:

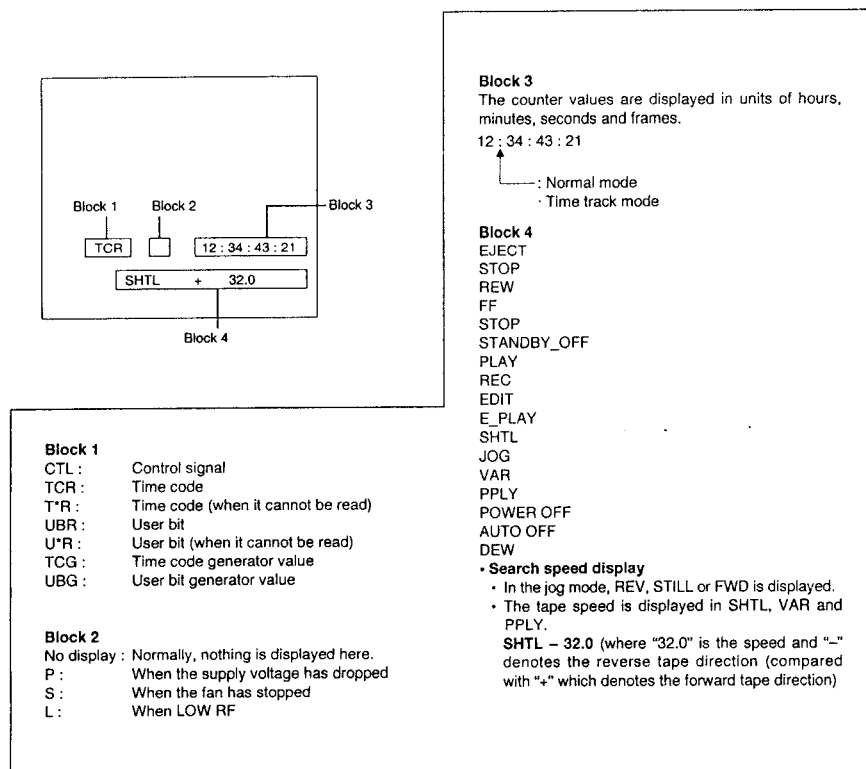
Turn the BRIGHTNESS control or set the LCD switch to LIGHT or DARK.
The screen brightens at the LIGHT setting and is dimmed at the DARK setting.

Adjustments in set-up menu mode

The contrast, colour and hue can be adjusted on the set-up menu. Use menu item No.802 (LCD CONT) for adjusting the contrast, item No.803 (COLOUR) for the colour.

SUPERIMPOSE SCREEN DISPLAYS

Superimposed displays can be added to the laptop's liquid-crystal TV monitor or to the signals output from the VIDEO MONITOR connector.



With the on-screen display, the superimposed signals are added to the liquid-crystal TV monitor or to the signals output from the VIDEO MONITOR connector.

To superimpose displays:

First check the connections, and then press the COUNTER/REMAIN switch. Check that characters are now displayed on the monitor.

If no characters are superimposed, press the COUNTER/REMAIN switch again.

For details on the superimposed display function, refer to the next page.

SUPERIMPOSE SCREEN DISPLAYS

The superimposed displays can be changed using the set-up menus.

What is displayed:

Either the time only or the time and operating mode can be selected as the superimposed display in set-up menu item No.000 (DISPLAY SEL).

Setting whether the superimposed display is to appear on the liquid-crystal monitor:

Whether the superimposed display is to appear or not is selected in set-up menu item No.001 (LCD SUPER).

Characters displayed:

The background for the characters displayed can be changed in set-up menu No.002 (CHARA TYPE).

CTL counter display:

Either the 12-hour or 24-hour system can be set in set-up menu item No.003 (TAPE TIMER).

Besides these selections which are made using the set-up menus, the position where the superimposed characters are displayed can be switched to the top or bottom by pressing the COUNTER/REMAIN switch.

For details on the set-up menus, refer to pages 22 to 34.

CONNECTOR SIGNALS

VIDEO

VIDEO/Y IN	BNCX1
Pb IN	BNCX1
Pr IN	BNCX1
REF VIDEO IN	BNCX2 loop-through format with 75-ohm, automatic termination
VIDEO/Y OUT	BNCX1
Pb OUT	BNCX1
Pr OUT	BNCX1
VIDEO MONITOR OUT	BNCX1

AUDIO

AUDIO IN	XLRX2 CH1, CH2
AUDIO OUT	XLRX2 CH1, CH2
PB AUDIO OUT	XLRX2 CH1, CH2
AUDIO MONITOR OUT	XLRX1 CH1/CH2/MIX

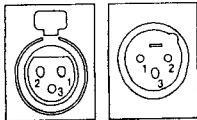
DC IN

XLR 4P

REMOTE (9P)

Pin No.	Signal	Pin No.	Signal	Pin No.	Signal
1	FRAME GROUND	4	RECEIVE COMMON	7	TRANSMIT B
2	TRANSMIT A	5	—	8	RECEIVE A
3	RECEIVE B	6	TRANSMIT COMMON	9	FRAME GROUND

AUDIO IN/OUT



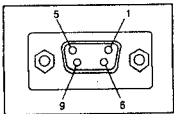
- 1. GND
- 2. HOT
- 3. COLD

DC IN



- 1. GND
- 2.
- 3.
- 4. +12V

REMOTE



ERROR MESSAGES

When one of the following message numbers appears on the display, the VTR is set to the auto OFF mode (stop) or its power is forcibly turned off. Turn off the power, and then turn it back on. If the error persists after this, consult your dealer.

Error No.	Details of error	VTR operation
E-11	When the cassette was inserted, the reel motor locked up for about 2.5 seconds or longer. When the cassette is ejected, the VTR is set to the auto OFF mode.	STOP
E-21	When the cassette was removed, the front loading motor locked up for about 4 seconds. When the cassette moves down again and the motor locks up again even if an attempt is made to remove the cassette, the VTR is set to the auto OFF mode if the cassette has moved down.	STOP STOP
E-31	The loading motor locked up for about 4 seconds when the cassette was loaded. If the motor locks up even when the cassette is unloaded and loaded again, the cassette is ejected. The VTR is set to the auto OFF mode.	STOP
E-32	The motor locked up for about 4 seconds when the cassette was unloaded. The VTR is set to the auto OFF mode.	STOP
E-41	The FG (rotational speed) signal is not output from the cylinder motor.	STOP
E-42	The PG (phase speed) signal is not output from the cylinder motor.	STOP
E-43	The cylinder motor speed is abnormally high.	STOP
E-44	The cylinder motor speed is abnormally low.	STOP
E-51	The FG (rotational speed) signal is not output from the capstan motor.	STOP
E-52	The capstan motor speed is abnormally high.	STOP
E-53	The capstan motor speed is abnormally low.	STOP
E-61	The supply reel motor has locked up.	STOP
E-62	The take-up reel motor has locked up.	STOP
E-63	The supply reel motor speed is abnormally high.	STOP

ERROR MESSAGES

Error No.	Details of error	VTR operation
E-64	The take-up reel motor speed is abnormally high.	STOP
E-65	Abnormal tension has been detected.	STOP
E-66	At the tape start or end, the short FF or REW operation does not stop even after 7 or more seconds.	STOP
E-67	A check sum error was detected in the serial data communication between the syscon and servo.	STOP
E-68	In serial data communication between the syscon and servo, the data was fixed at low or high and the absence of data was detected.	STOP
E-69	A communication error was detected in the serial data between the syscon and servo when the power was turned on.	STOP
E-70	About an hour has elapsed after the fan motor stopped. The VTR forcibly turns off its power.	Forced POWER OFF
E-71	The heat sensor was activated and an abnormally high temperature inside the VTR was detected.	Forced POWER OFF
E-72	Trouble in the solenoid drive circuitry was detected.	Forced POWER OFF
E-73	Trouble in the cleaning solenoid drive circuitry was detected.	Forced POWER OFF
E-BA	The input supply voltage dropped below the undercut voltage.	Forced POWER OFF (*)

(*) The counter display flashes to provide a warning.

DIAG-MENU OPERATIONS

The unit's system software version display, hour meter displays for the drum motor, rotating heads, etc. (for number of hours used can be viewed on the DIAG menu.

```

DIAG-MENU HOUR METER
<VTR-2>
* H00 OPERATION 10000H
  H01 DRUM RUN 10000H
  H02 TAPE RUN 10000H
  H03 THREADING 10000T
  H11 DRUM RUN r 10000H
  H12 TAPE RUN r 10000H
  H13 THRREADING r 10000T
  
```

Hour meter display

```

DIAG-MENU
<VTR-2>
DISPLAY Ver<1.00-00>
AV-SYSCON Ver<1.00-00>
SBC Ver<1.06-00>
CYLINDER Ver<1.00-00>
REEL Ver<1.00-00>
END
  
```

Version display
(Above display is version for VTR2.)

To transfer from a regular mode to the DIAG mode:

- 1 Set the unit to the jog mode.
• Remember that the mode cannot be transferred in the shuttle mode.
- 2 Press the DIAG (SHIFT+REC) buttons. (This cannot be done by remote control.)
The hour meter displays appear on the VTR1 and VTR2 monitor screens.
- 3 Turn the dial to move to an item.
Turn it clockwise (FWD) to move down and counterclockwise (REV) to move up.

To display the version:

- 1 Press the FF button on the VTR2 while holding down the SHIFT button.
The display changes from hour meter to version.

To return from the DIAG mode to the normal mode:

Press the DIAG (SHIFT+REC) buttons.

The DIAG menu is for reference purposes only.

DETAILED DESCRIPTION OF DIAG MENU

Details of the hour meter display are given below.

Item		Data	Description
No.	Display	Display	
H00	OPERATION	00000H : : : 999999H	The period of time during which the power has been supplied since it was turned on is displayed in 1-hour increments.
H01	DRUM RUN	00000H : : : 999999H	The period of time during which the drum has been rotating is displayed in 1-hour increments.
H02	TAPE RUN	00000H : : : 999999H	The tape travel duration in the fast forward, rewind, play, search (JOG, VAR, SHTL), recording or editing mode (but not in the STILL mode with JOG, VAR and SHTL) is displayed in 1-hour increments.
H03	THREADING	00000H : : : 999999H	The number of times the tape has been threaded or unthreaded is displayed in 1-time increments.

OTHERS

Video head cleaning

This laptop has an auto head cleaning function which automatically reduces the amount of dirt on the heads. However, for even higher reliability, it is recommended that the video heads be cleaned every day.

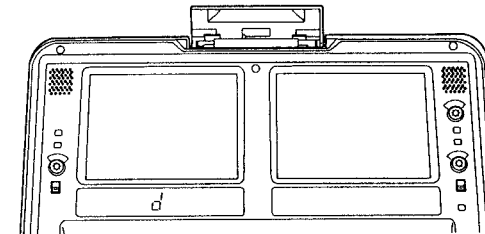
Use the cleaning fluid designated by Panasonic.

Condensation

The principle behind the formation of condensation is the same as that which causes droplets of water (condensation) to form on the window panes of a heated room when it is cold outside. Condensation forms on the laptop or tape when it is moved to a location with a significantly different temperature and humidity. More specifically, it forms when the laptop or tape is:

- Taken to a very steamy and humid location or into a room where the heating was just turned on.
- Taken suddenly from an air-conditioned room to a very hot and humid location.

In such cases, do not turn the power on immediately but leave the unit standing for about 10 minutes. When condensation has formed in the unit, "d" appears on the counter section. Keep the power on and wait until "d" is cleared.



Maintenance

Before proceeding with maintenance, set the power switch to OFF and be sure to take hold of the power plug to disconnect the power cable from the power outlet.

Use a soft cloth to clean the cabinet. To remove stubborn dirt, dilute some neutral detergent with water, dip a cloth into the solution, wring it out, and wipe away the dirt. Then wipe off any remaining moisture using a dry cloth.

Cautions

Do not place the video cassette on top of bed covers or carpet when in use.

- | | |
|--|---|
| <ul style="list-style-type: none"> ■ Do not insert fingers or any objects into the video cassette holder. ■ Avoid operating or leaving the unit near strong magnetic fields. Be especially careful of large audio speakers. ■ Avoid operating or storing the unit in an excessively hot, cold, or damp environment as this may result in damage both to the unit and to the tape. ■ Do not spray any cleaner or wax directly on the unit. ■ If the unit is not going to be used for a length of time, protect it from dirt and dust. ■ Do not leave a cassette in the unit when not in use. ■ Do not block the ventilation slots of the unit. | <ul style="list-style-type: none"> ■ Use this unit horizontally and do not place anything on the top panel. ■ Cassette tape can be used only for one-side, one direction recording. Two-way or two-track recordings cannot be made. ■ Cassette tape can be used for either Colour or Black & White recording. ■ Do not attempt to disassemble the unit. There are no user serviceable parts inside. ■ If any liquid spills inside the unit, have the unit examined for possible damage. ■ Refer any needed servicing to authorized service personnel. |
|--|---|

SECTION 2

MAINTENANCE & MECHANICAL ADJUSTMENTS

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1. Maintenance

1-1. Maintenance Parts Chart

	Name	Part Number	Using Hours (unit hours)					
			2,000	4,000	6,000	8,000	10,000	12,000
	Tape Path Cleaning		△ Clean the Tape Path at each 500 hours					
	Fan Motor	VRF0193	Replace the Fan Motor at each 10,000 hours <u>Operation Time</u> .					
	LCD Unit	EDTCA03QAF	Replace the LCD Unit at each 10,000 hours <u>Operation Time</u> .					
	Mech. Chassis Unit	VXY1283Z1						●
1	Cylinder Unit	VEG1337	●	●	●	●	●	
2	Pinch Arm Unit	VXL2684		● ■		● ■		
3	Cleaning Arm Unit	VXL2748	●	●	●	●	●	
4	S Reel Motor A Unit	VEM0635			●			
5	T Reel Motor A Unit	VEM0636			●			
6	Thrust Screw Unit	VXQ0556			● ▲			

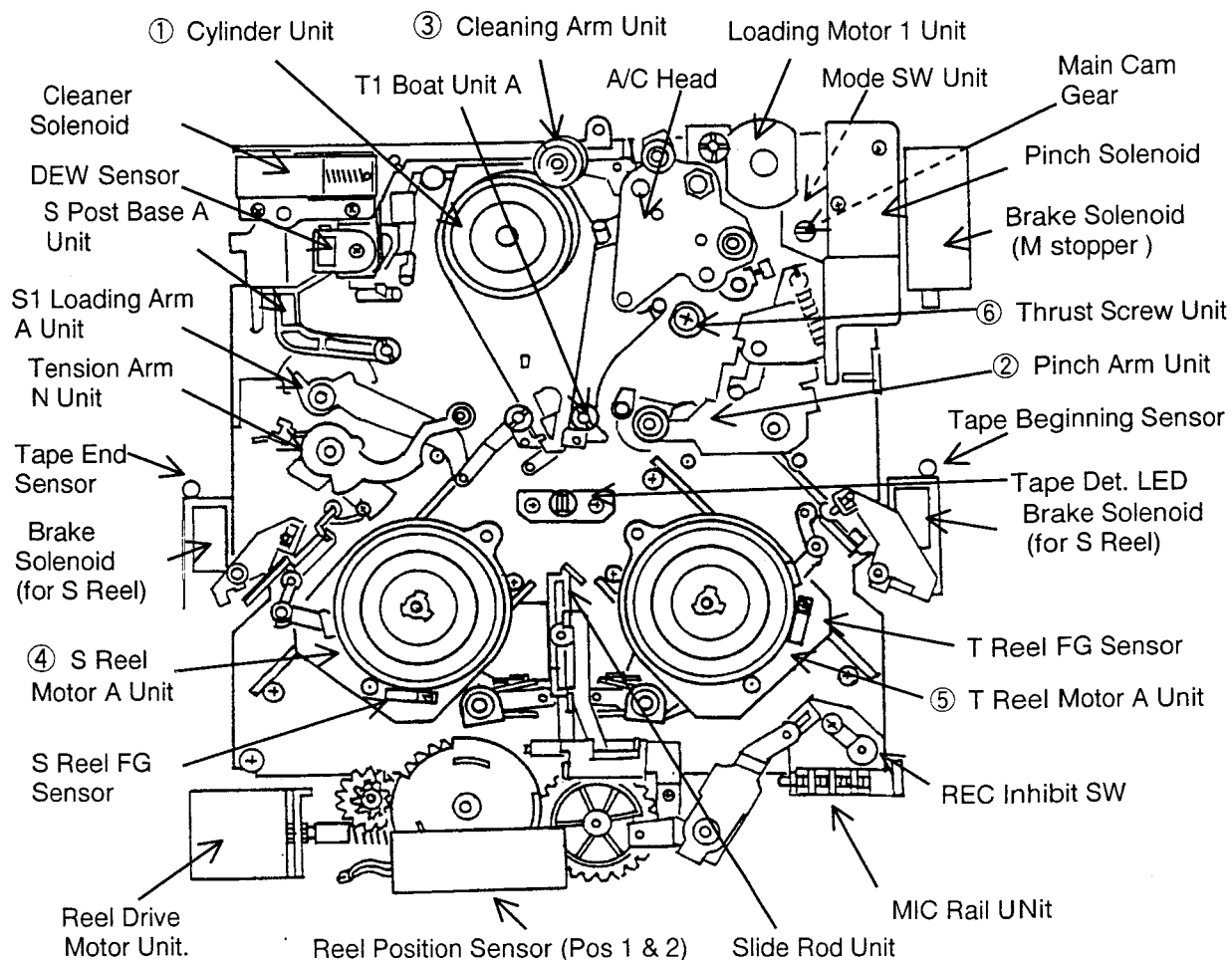
Note: Using Hours are based on the head rotation hours.

Using hours are recommendation. It may depend on temperature, humidity or dusty.

Using hours are listed as the reference of maintenance. They do not mean guarantee hours.

Symbol	Maintenance	Remark
●	Replacement	
■	Greasing	Wipe the old grease and apply new grease.
△	Cleaning	This mark means cleaning is necessary.
▲	Lubrication	The lubrication is necessary when replacing the Thrust Screw Unit

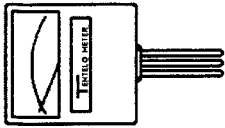
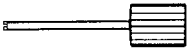
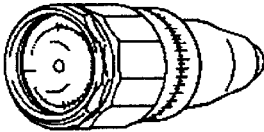



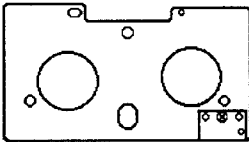
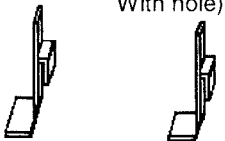




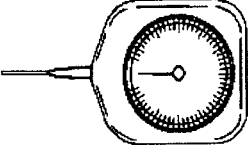


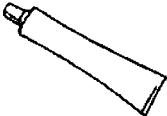

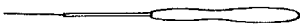

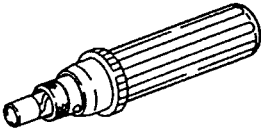
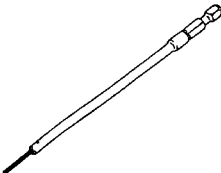
1-2. Sensors Layout

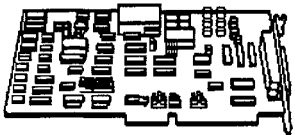
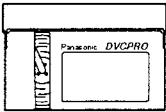
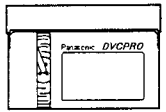
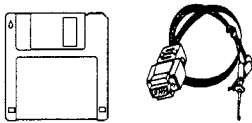
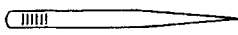
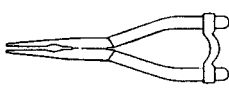
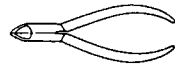
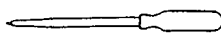
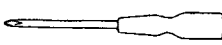
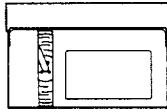
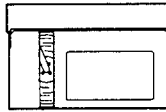
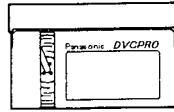
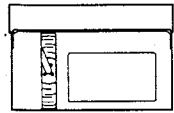

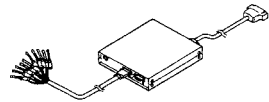
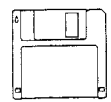
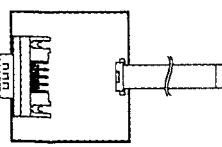
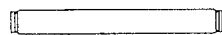
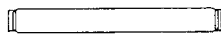



1 — 3. Servicing Fixtures & Tools

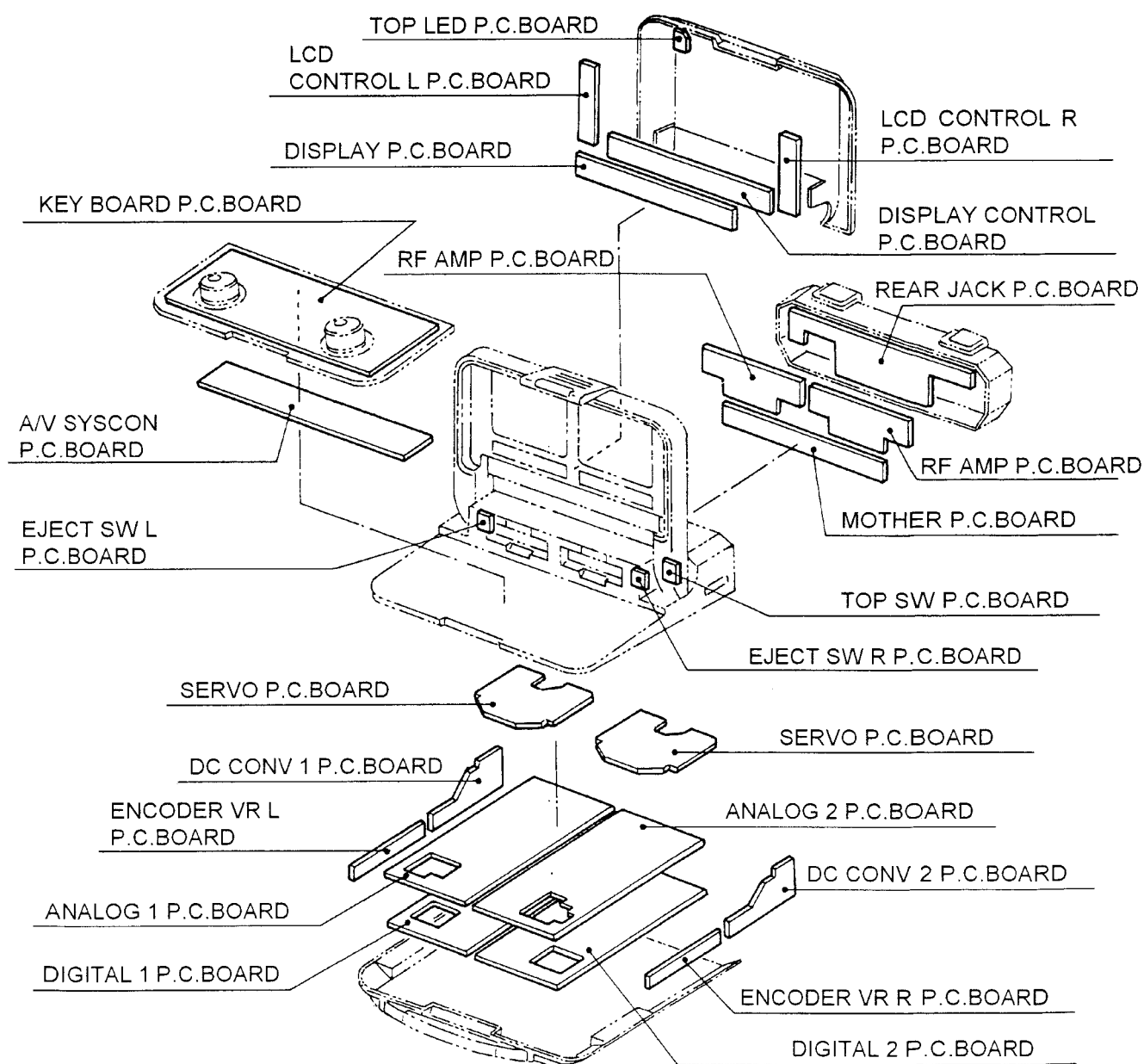
Fig	ITEM	PART No.	JIG & EQUIPMENT	AJ-LT75	Remark
1	Jig Tool	VFK1145	Back Tension Meter (T2-M30-P)	yes	
2		VFK1149	Post Driver	yes	
3		VFK71	Dial Torque Gauge(150g)	yes	
4		VFK1191	Dial Torque Gauge(45g)	yes	
5		VFK1152	Dial Torque Gauge Adaptor	yes	
6		VFK0357	Eccentric Screwdriver(1.5)	yes	
7		VFK1154	Post Height Fixture	yes	
8		VFK1153	Mech. Neutral Plate(Post)	yes	
9		VFK0906	OIL	yes	
10		VFK1155	Neutral Position Tool(Gold)	yes	
11		VFK1156	Neutral Position Tool(Black)	yes	
12		VFK1208	Neutral Position Tool(Black With Hole)	yes	
13		VFK1150	Nut Driver(5.5mm)	yes	
14		VFK1151	Nut Driver(2.5mm)	yes	
15		VFK1188	Dial Tension Gauge(30g)	yes	
16		VFK0948	Check Light	yes	
17		VFK0749	Froiral Grease (for plastic)	yes	
18		MOR265	Morlytone Grease (for metal)	yes	
19		VFK1146	Philips Driver(Fine)(00-75)	yes	
20		VFK1147	Philips Driver(Fine)(0-100)	yes	
21		VFK1148	Hex.Driver(1.5)	yes	
22		VFK1178	Hex.Driver(0.89)	yes	
23		VFK1179	Hex.Driver(0.71)	yes	
24		VFK1190	HEX. Wrench	yes	
25		VFK1209	Torque Driver(0.4-3Kg)	yes	
26		VFK0912	Post Axis Driver(1.5mm)	yes	
27		VFK1300	A/D Board(DAQ-12, Quatech)	yes	※Note
28		VFM3580KM	Alignment Tape(No.1)	yes	for NTSC
29		VFM3581KM	Alignment Tape(No.2)	yes	for NTSC
30		VFM3582KM	Alignment Tape(No.3)	yes	for NTSC
31		AJ-CL12MP	Cleaning Tape	yes	SALES
32		VFK1159	LISTA Software	yes	
33		VFK1186	LISTA CABLE	yes	
34		VFK0369	Tweezers	yes	
35		VFK0371	Radio Prier	yes	
36		VFK0372	Cutter Prier	yes	
37		VFK0338	Trimmer Adjustment Driver	yes	
38		VFK0337	Philips Driver	yes	
39		VFM3000EDS	Alignment Tape(DV LISTA)	yes	
40		VFM3010EDS	Alignment Tape(DV Color Bar)	yes	for NTSC
41		VFM3680KM	Alignment Tape(No.1)	yes	for PAL
42		VFM3681KM	Alignment Tape(No.2)	yes	for PAL
43		VFM3682KM	Alignment Tape(No.3)	yes	for PAL
44		VFM3110EDS	Alignment Tape(DV Color Bar)	yes	for PAL
45		VFK1160A	RF Adjustment soft	yes	
46		VFK1163	RF Adjustment Tool	yes	
47		VFK1248A	Flash ROM Version up software	yes	
48		VFK1304	ROM Rewriter	yes	
49		VFK1305	120P Extender	yes	
50		VFK1307	70P Exetender	yes	
51		VFK1306	52P Extender	yes	

※ Note: VFK1300 or Purchase Locally

<p>1 VFK1145 Back Tension Meter</p>  <p>Model:T2-M30-P</p>	<p>2 VFK1149 Post Driver</p> 	<p>3 VFK71 (150g) 4 VFK1191(45g) Dial Torque Gauge</p> 	<p>5 VFK1152 Dial Torque Gauge Adapter</p> 
<p>6 VFK0357(φ 1.5) Eccentric Screwdriver</p> 	<p>7 VFK1154 Post Height Fixture</p> 	<p>8 VFK1153 Mech Neutral Plate(Post)</p> 	<p>9 VFK0906 OIL (for Thrust Adjustment screw)</p>
<p>10 VFK1155 (REV, Gold) 11 VFK1156 (PLAY, Black) 12 VFK1208(Neutral,Black With hole)</p>  <p>(Gold) (Black)</p>	<p>13 VFK1150 Nut Driver(5.5mm)</p>   <p>5.5mm</p>	<p>14 VFK1151 Nut Driver(2.5mm)</p>   <p>2.5mm</p>	<p>15 VFK1188(30g) Dial Tension Gauge</p> 
<p>16 VFK0948(or purchase locally) Check Light</p> 	<p>17 VFK0749 Froiral Grease(White) (for plastic part)</p> 	<p>18 MOR265 Morlytone Grease(Black) (for metal part)</p> 	<p>19 VFK1146 (00 x 75) 20 VFK1147 (0 x 100) Philips Driver</p> 
<p>21 VFK1148(1.5mm) 22 VFK1178(0.89mm) 23 VFK1179(0.71mm) Hex. Driver</p> 	<p>24 VFK1190 (1.5mm) Hex. Wrench</p> 	<p>25 VFK1209 Torque Driver(0.4-3Kg)</p> 	<p>26 VFK0912 Post Axis Driver(1.5mm)</p> 

<p>27 VFK1300 A/D Converter Board (For Quatech. DAQ-12 Purchase Locally)</p> 	<p>28 VFM3580KM 29 VFM3581KM 30 VFM3582KM DVC PRO Alignment Tape</p> 	<p>31 AJ-CL12MP Cleaning Tape</p> 	<p>32 VFK1159 LISTA Software 33 VFK1186 LISTA Cable</p> 
<p>34 VFK0369 Tweezers</p> 	<p>35 VFK0371 Radio Prier</p> 	<p>36 VFK0372 Cuntter Prier</p> 	<p>37 VFK0338 Trimmer Adjustment Driver</p> 
<p>38 VFK0377 Philips Driver</p> 	<p>39 VFM3000EDS DV Alignment Tape ° (LISTA)</p> 	<p>40 VFM3010EDS DV Alignment Tape (Color Bar)</p> 	<p>41 VFM3680KM 42 VFM3681KM 43 VFM3682KM DVC PRO Alignment Tape</p> 
<p>44 VFM3110EDS DV Alignment Tape (Color Bar)</p> 	<p>45 VFK1160A RF Adjustment Soft</p> 	<p>46 VFK1163 RF Adjustment Tool</p> 	<p>47 VFK1248A Flash ROM Version up Software</p> 
<p>48 VFK1304 ROM Rewriter</p> 	<p>49 VFK1305 120P Extender</p> 	<p>50 VFK1307 70P Extender</p> 	<p>51 VFK1306 52P Extender</p> 

1-4. Boards Location



1-5. Alignment Tapes

DVCPRO Alignment Tape

for NTSC

VFM3580KM (NTSC)

Time (min)	Video		PCM		CUE	
	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	Color Bar SMPTE(75%)	Composite Video Level Confirmation	1kHz -20dB	Audio Level Confirmation	1kHz 0VU	CUE Level Confirmation
7:00	Color Bar Full Field(75%)	Component Video Level Confirmation				
14:00	H Sweep	Frequency Response			6kHz 0VU	A/C Head Azimuth
18:00	Bowtie(500k)	Y/C Timing				
22:00	Pulse&Bar	Y/C Timing			1kHz	Frequency
26:00	Area Markers				300Hz~6kHz	Response
30:00						

VFM3581KM (NTSC)

Time(min)	Signal
0:00~20:00	ITI Pattern

VFM3582KM (NTSC)

Time(min)	Signal
0:00~10:00	X Value

for PAL

VFM3680KM (PAL)

Time (min)	Video		PCM		CUE	
	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	Color Bar 100%	Video Level Confirmation	1kHz -18dBu	Audio Level Confirmation	1kHz Reference level	CUE Level Confirmation
10:00	H Sweep	Frequency Response				
14:00	Area Markers				6kHz Reference level	A/C Head Azimuth
18:00	Bowtie(500k)	Y/C Timing				
22:00	Pulse & Bar	Y/C Timing			1kHz 300Hz~6kHz	Frequency Response
26:00	Multi Pulse	Y/C Timing				
30:00						

VFM3681KM (PAL)

Time (min)	Signal
0:00 ~ 20:00	ITI Pattern

VFM3682KM (PAL)

Time (min)	Signal
0:00 ~ 10:00	X Value

Recommended Test And Service Equipment

NTSC

Part No.	Name	Remark
TSG130A(OP.04)	Analog Component Signal Generator	TEKTRONIX
2467B	400MHz Oscilloscope	TEKTRONIX
1760(OP.SC) or 1780R	SCH Meter	TEKTRONIX
520A	Vector Scope	TEKTRONIX
	Digital Volt Meter	
	Frequency Counter	
	VTVM	Frequency Band Width 4Hz-500KHz
HP8591A	Spectrum Analyzer	Hewlett-Packard
	Audio Analyzer	

PAL

Part No.	Name	Remark
TSG131A(OP.04)	Analog Component Signal Generator	TEKTRONIX
2467B	400MHz Oscilloscope	TEKTRONIX
1751(OP.SC) or 1781R	SCH Meter	TEKTRONIX
	Digital Volt Meter	
	Frequency Counter	
	VTVM	Frequency Band Width 4Hz-500KHz
HP8591A	Spectrum Analyzer	Hewlett-Packard
	Audio Analyzer	

2. Disassembly Method

2-1. Removal of Top Case Unit

1. Pull the Lever and release the lock.

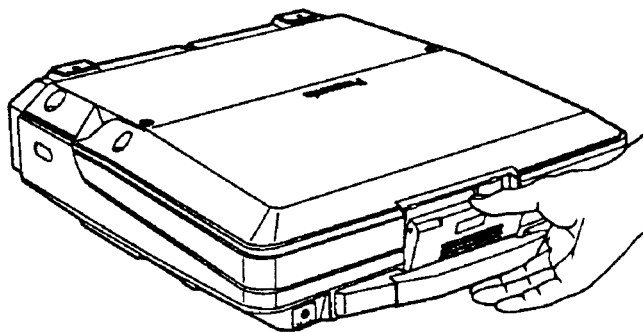


Figure 1

2. Loosen the 4 screws (A) and remove the Top Case Unit as shown in Figure 2.

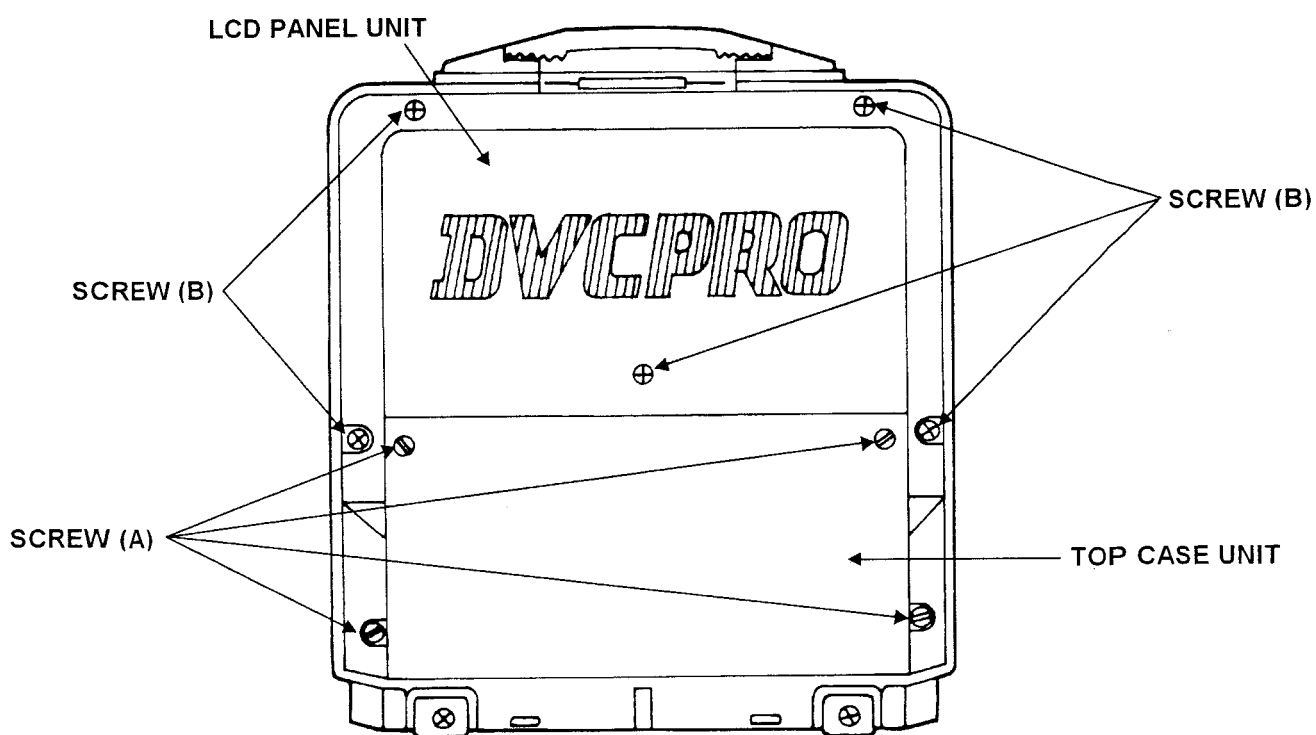


Figure 2

2-2. Removal of LCD Panel Unit

1. Unscrew the 5 screws (B) and remove the LCD Panel Unit as shown in Figure 2.

2-3. Removal of Bottom Case Unit

1. Unscrew the 7 screws and remove the Bottom Case Unit as shown in Figure 3.

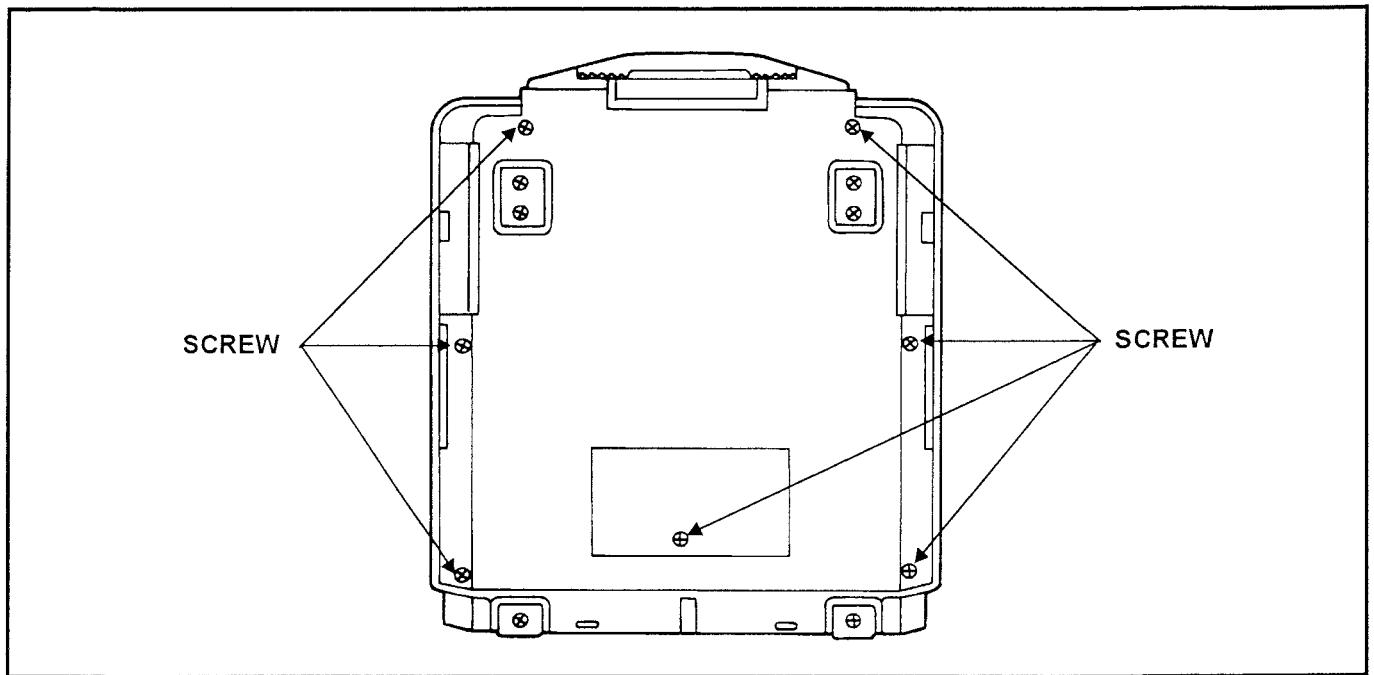


Figure 3

2-4. Open the P.C.Board Unit

Note: P.C.Board Unit is combined Digital 1, Digital 2, Analog 1, Analog 2, DC Conv 1, DC Conv 2, Encoder L and Encoder R P.C.Board.

1. Unscrew the 3 screws and open the P.C.Board Unit as shown in Figure 4.

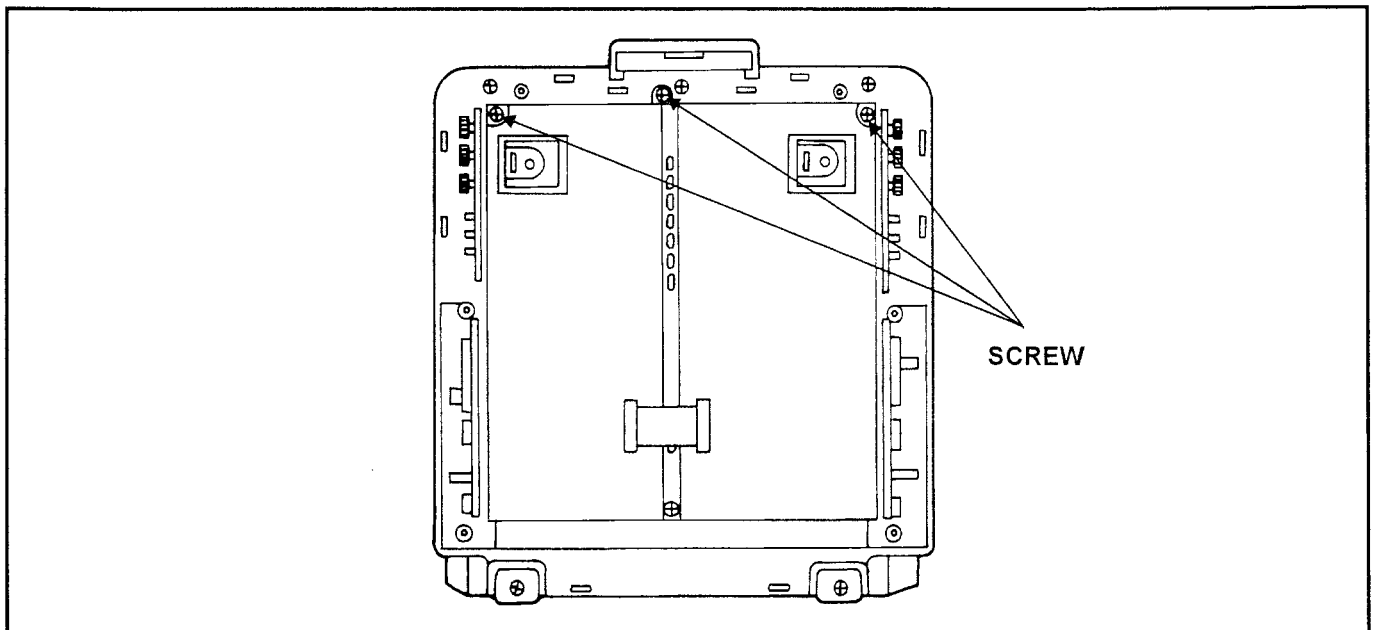


Figure 4

2-5. Removal of Key Panel Unit

Remove the Bottom Case Unit.

Open the P.C.Board Unit.

Unscrew the 3 screws (B) and disconnect the connector (A): P61901, (B): P60601, (C): P61301, (D): P61601 on the A/V SYSCON P.C.Board as shown in Figure 5.

Lift up the Key Panel Unit and disconnect the connector (E): P65007, (F): P65008 on the Key board as shown in Figure 5.

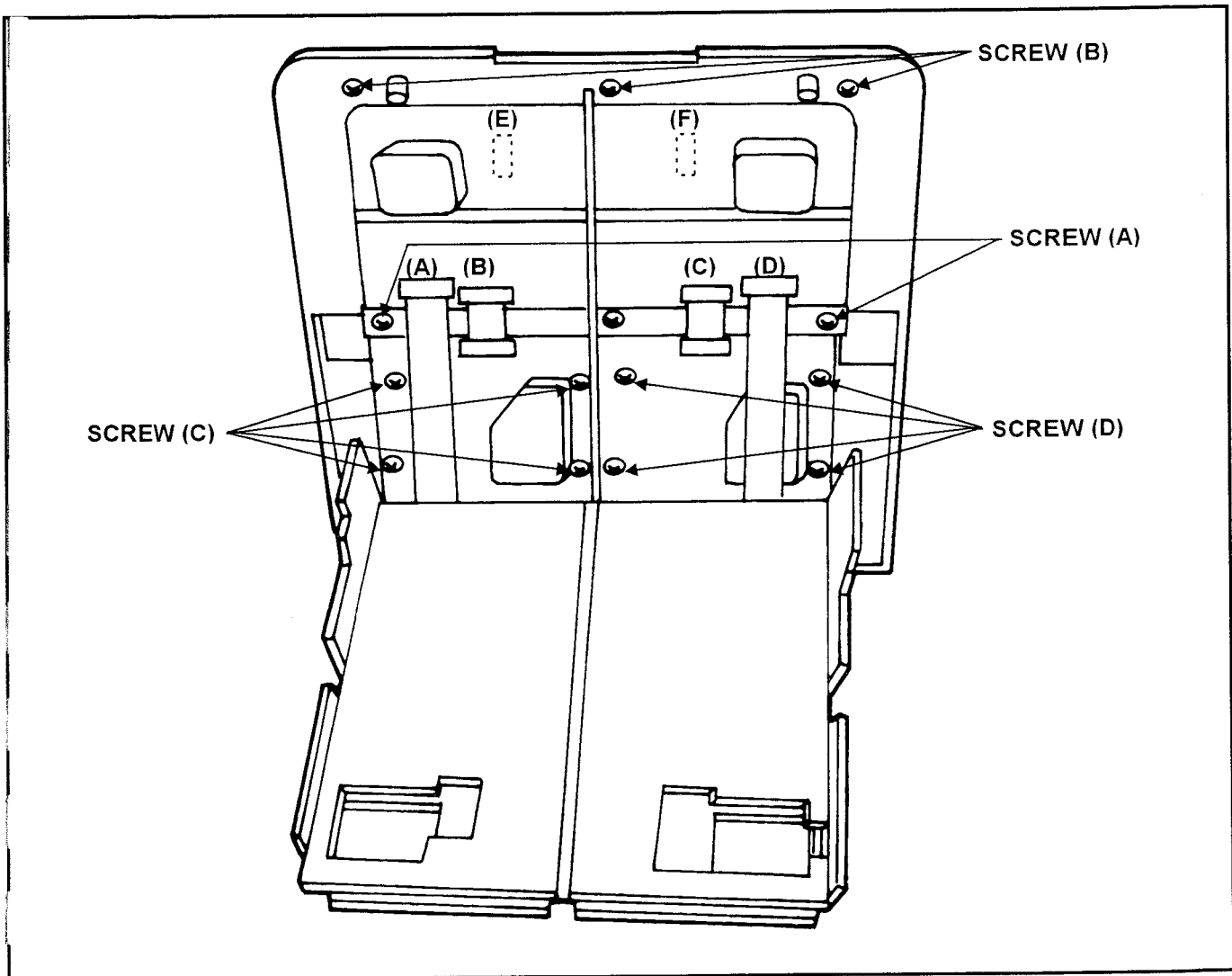


Figure 5

2-6. Removal of Front Panel

1. Remove the Top Case Unit.
2. Remove the Bottom Case Unit.
3. Open the P.C.Board Unit.
4. Remove the Key Panel Unit.
5. Unscrew the 3 screws (A) as shown in Figure 5.
6. Unscrew the 2 screws at left and right side, then remove the Front Panel as shown in Figure 6.

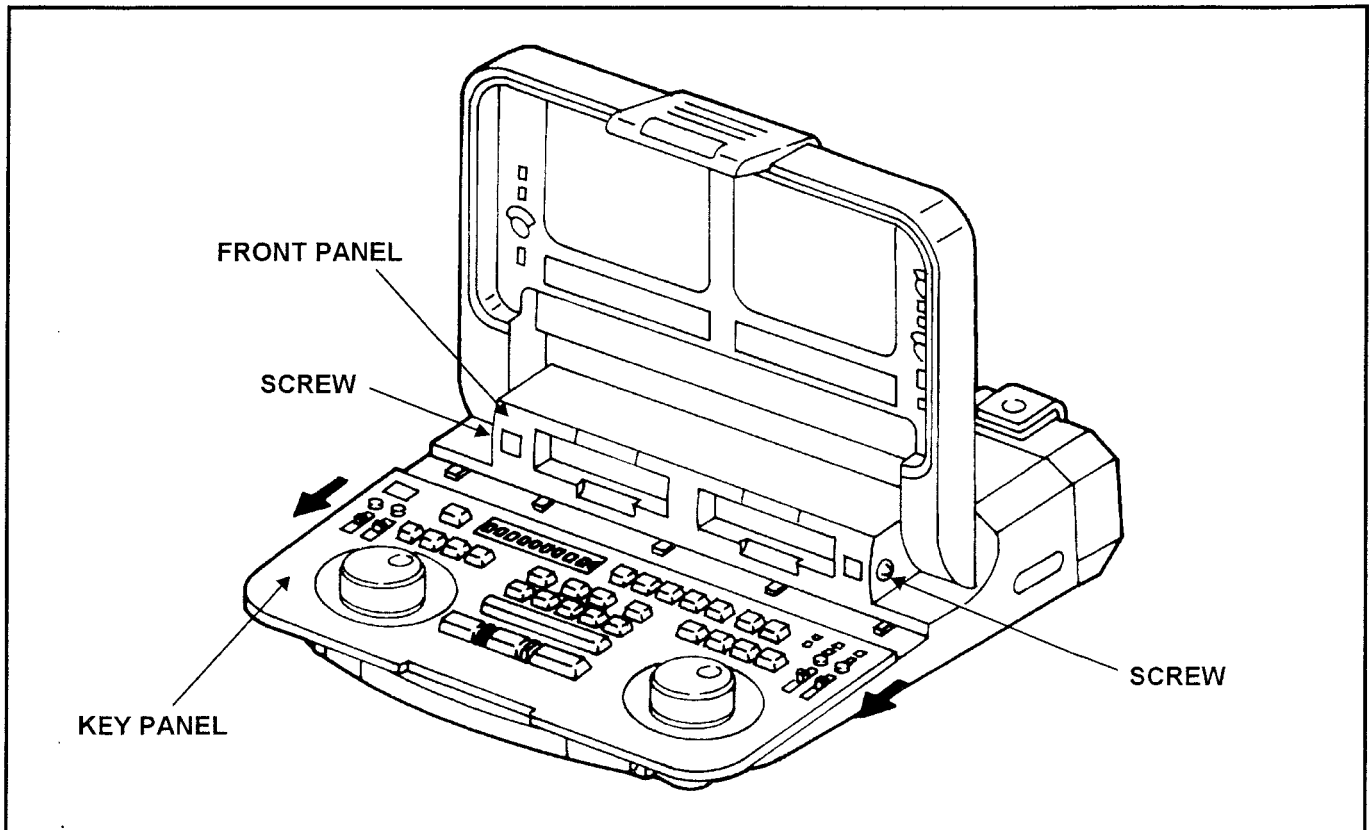


Figure 6

2-7. Removal of Front Loading Unit

1. Remove the LCD Panel Unit.
2. Disconnect the 2 connectors at Front Loading motor part and mechanism interconnection board as shown in Figure 7.
3. Disconnect the connector P5004 for A/C Head cable on the RF AMP P.C.Board as shown in Figure 7.
4. Rotate the red plastic screw in front of the worm gear of the cassette down motor counterclockwise by a Philips-head screw-driver pushing the screw to move the Cassette Holder Unit the 2 screws (A) can be removal position as shown in Figure 7.
5. Unscrew the 4 screws (A) and (B), then remove the Front Loading Unit.

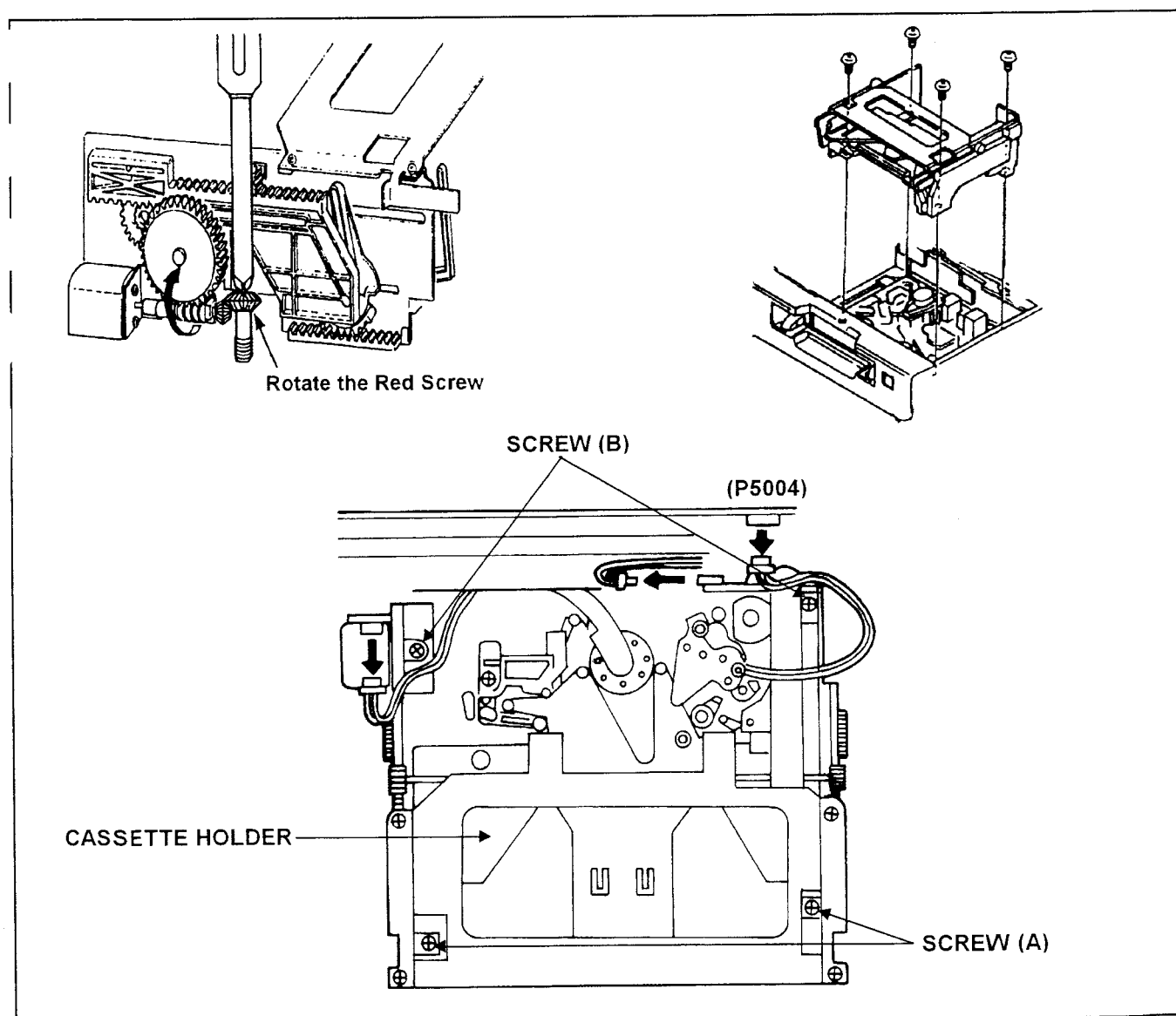


Figure 7

2-8. Removal of Cylinder Unit

1. Remove the Top Case Unit.
2. Remove the Bottom Case Unit.
3. Open the P.C.Board Unit.
4. Disconnect the connector (A): P61901 and (D): P61601 on the A/V SYSCON P.C.Board as shown in Figure 5.
5. Unscrew the 4 screws (C) for VTR 1 and 4 screws (D) for VTR 2, then remove the Shield Plate shown in Figure 5.
6. Disconnect the connector (A): P2033 on the Servo P.C.Board.

Note: In the case of remove the Cylinder Unit at VTR 1 side, then the connector (B): P2001 have to removed.

7. Unscrew the 3 screws (A), which have spring from the Cylinder unit as shown in Figure 8.

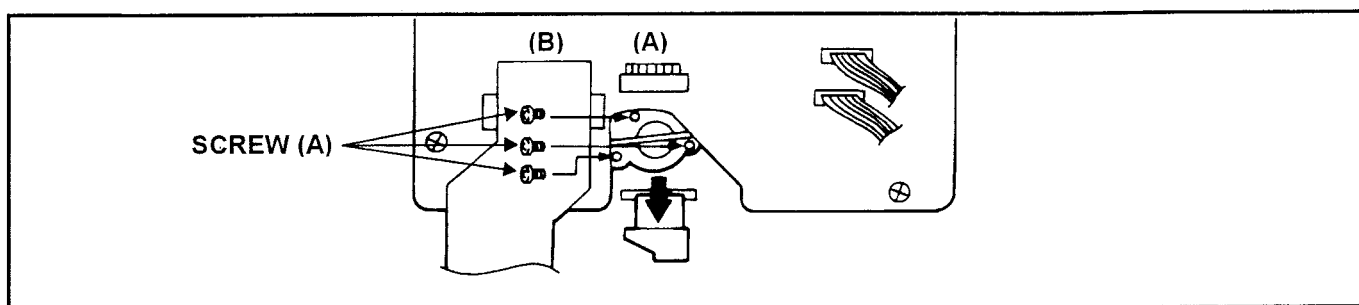


Figure 8

8. Disconnect the connector P5002 and P5003 on the RF AMP P.C.Board and unscrew the screw which is attached with the flexible board connector, then remove the cylinder unit without touching any mechanism parts as shown in Figure 9.

Note: Be careful when remove the flexible cable from the connector.

Please refer to how to remove the connector as shown in Figure 10.

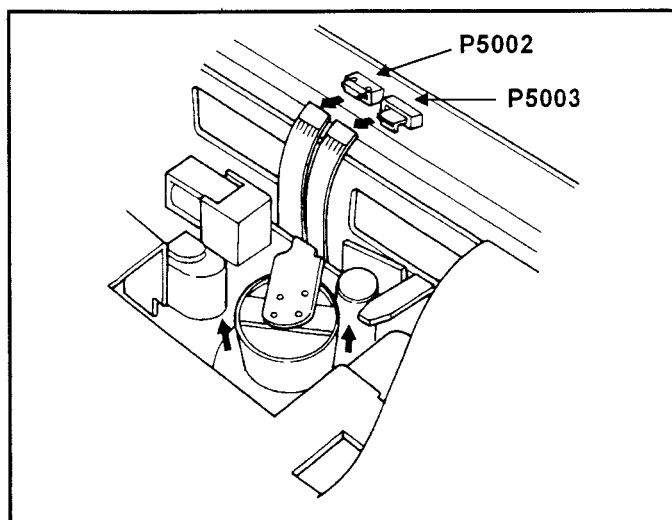


Figure 9

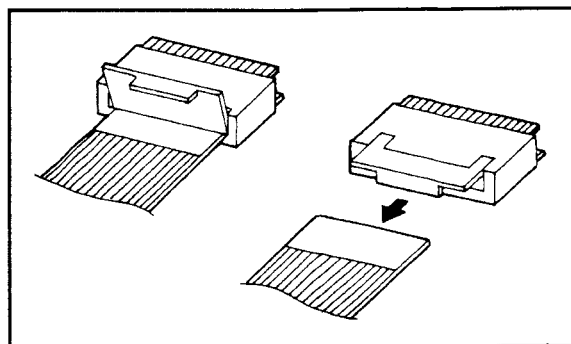


Figure 10

2-9. Removal of Mech Chassis Unit

1. Remove the Top Case Unit.
2. Remove the Bottom Case Unit.
3. Open the P.C.Board Unit.
4. Disconnect the connector (A): P61901 for VTR 1 and (D): P61601 for VTR 2 on the A/V SYSCON P.C.Board as shown in Figure 5.
5. Remove the Shield Plate (Refer to item 2-8).
6. Disconnect the connector (B): P2001, (C): P2002 on the Servo P.C.Board as shown in Figure 8.
7. Remove the Front Panel.
8. Remove the Front Loading Unit.
9. Disconnect the connector P5002 and P5003 on the RF AMP P.C.Board and unscrew the 3 screws and remove the mechanism unit.

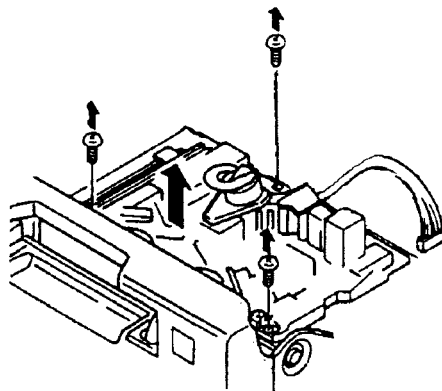


Figure 11

2-10. Removal of LCD Monitor Unit

1. Remove the Top Case Unit.
2. Disconnect the connector (A): CN4 on the LCD P.C.Board as shown in Figure 11.
3. Unscrew the screw and remove the LCD Fixed Plate, then remove the LCD Monitor Unit as shown in Figure 11.

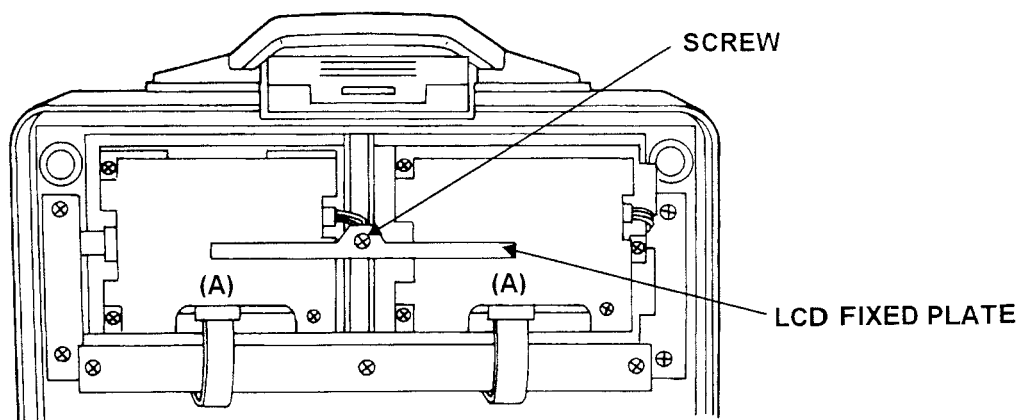


Figure 12

2-11. Removal of Rear Panel Unit

1. Unscrew the 4 screws (A) as shown in Figure 13 and disconnect the connector (A): P4004, (B): P4005, (C): P4006, (D): P4007, (E): P4012, (F): P4011, (G): P4010 and (H): P4008 on the Rear Jack P.C.Board as shown in Figure 14.
2. Disconnect the Connector (I): P1201 on the DC CONV 2 P.C.Board, then remove the Rear Panel Unit as shown in Figure 14.

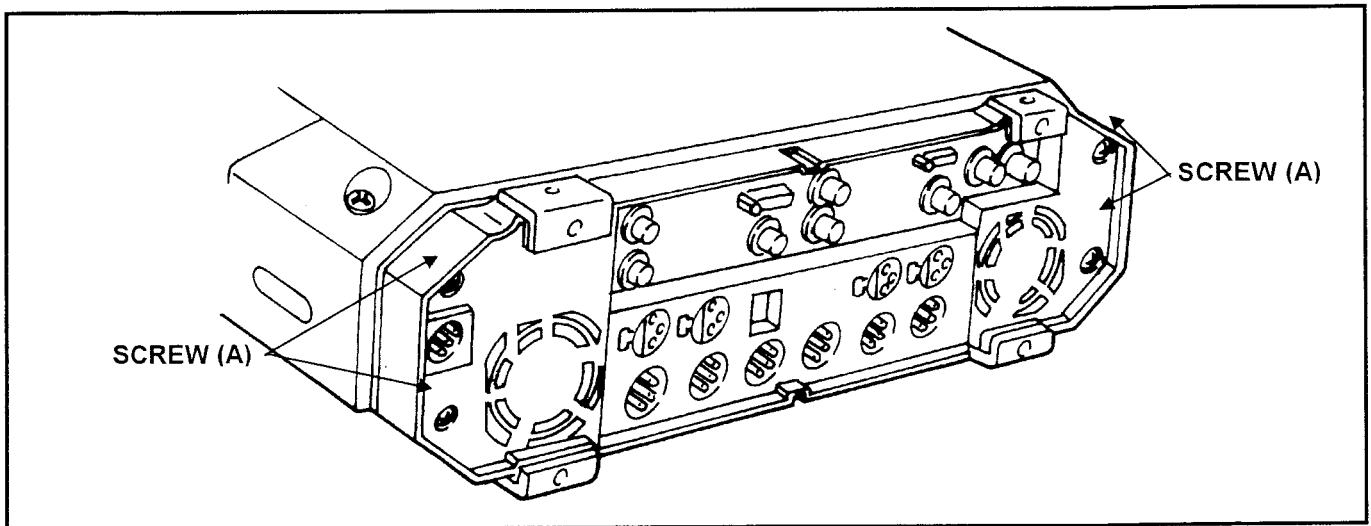


Figure 13

2-12. Removal of Fan Motor

1. Remove the Rear Panel Unit.
2. Unscrew the 6 screws (A) and (B), then remove the Fan Motor Fixed Plate as shown in Figure 14.
3. Disconnect the connector P4002 and P4003 on the Rear Jack P.C.Board, then remove the Fan Motor as shown in Figure 14.

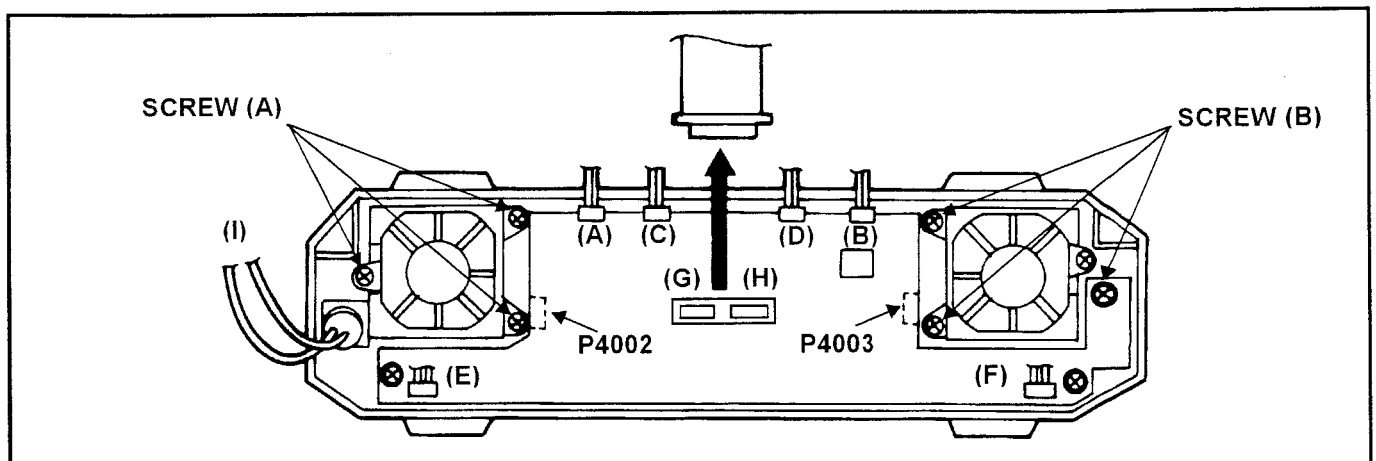


Figure 14

2-13. Removal of Digital 1 and 2 P.C.Board

1. Remove the Bottom Case Unit.
2. Disconnect the connector (A): P35704 on the Digital 1 P.C.Board and connector (B): P33004 on the Digital 2 P.C.Board as shown in Figure 15.
3. Disconnect the connector (C): P35706 on the Digital 1 P.C.Board and connector (D): P33006 on the Digital 2 P.C.Board as shown in Figure 15.
4. Remove the flexible cable, which is connected between connector (E): P35705 and (F): P33005 as shown in Figure 15.

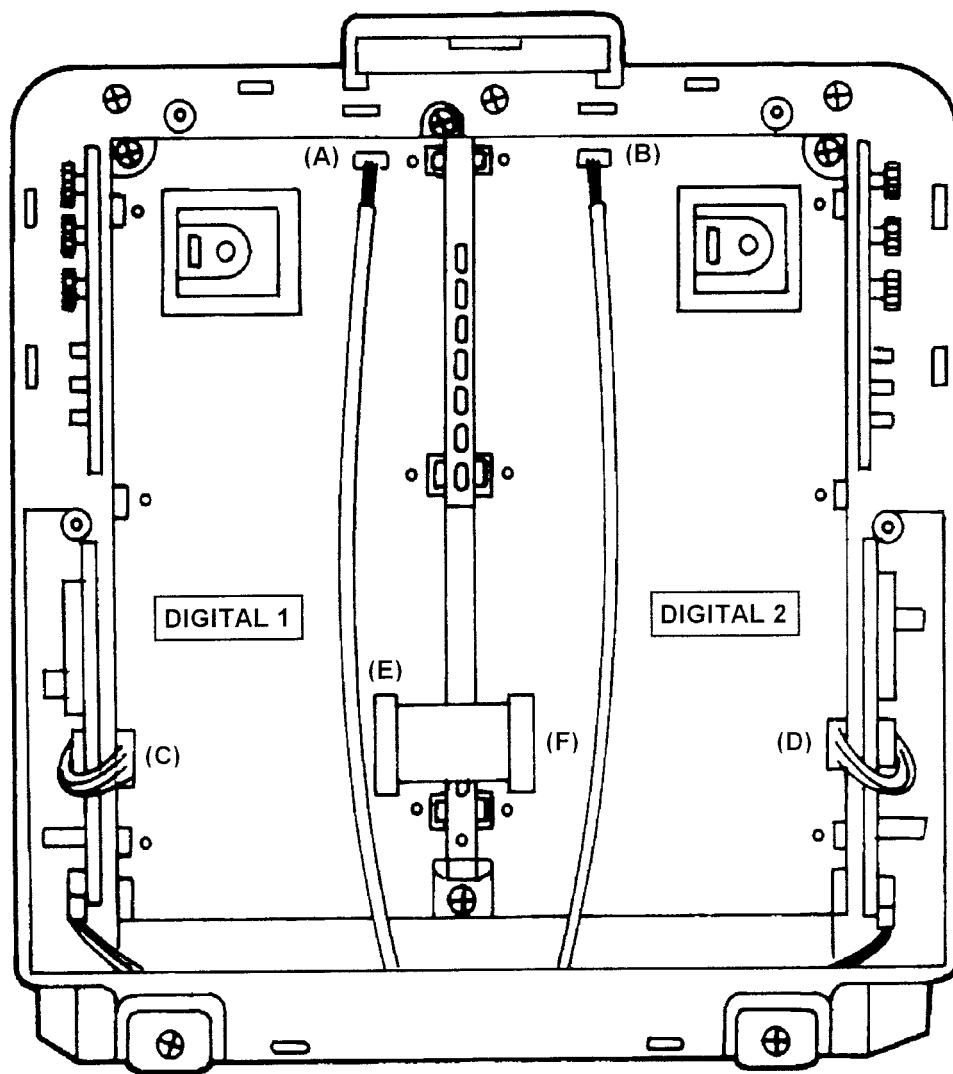


Figure 15

5. Open the Digital 1 and 2 P.C.Board as shown in Figure 16.
6. Disconnect the connector (A): P35702 and (B): P35701 on the Digital 1 P.C.Board as shown in Figure 16, then remove the Digital 1 P.C.Board.
7. Disconnect the connector (C): P33002 and (D): P33001 on the Digital 2 P.C.Board as shown as shown in Figure 16, then remove the Digital 2 P.C.Board.

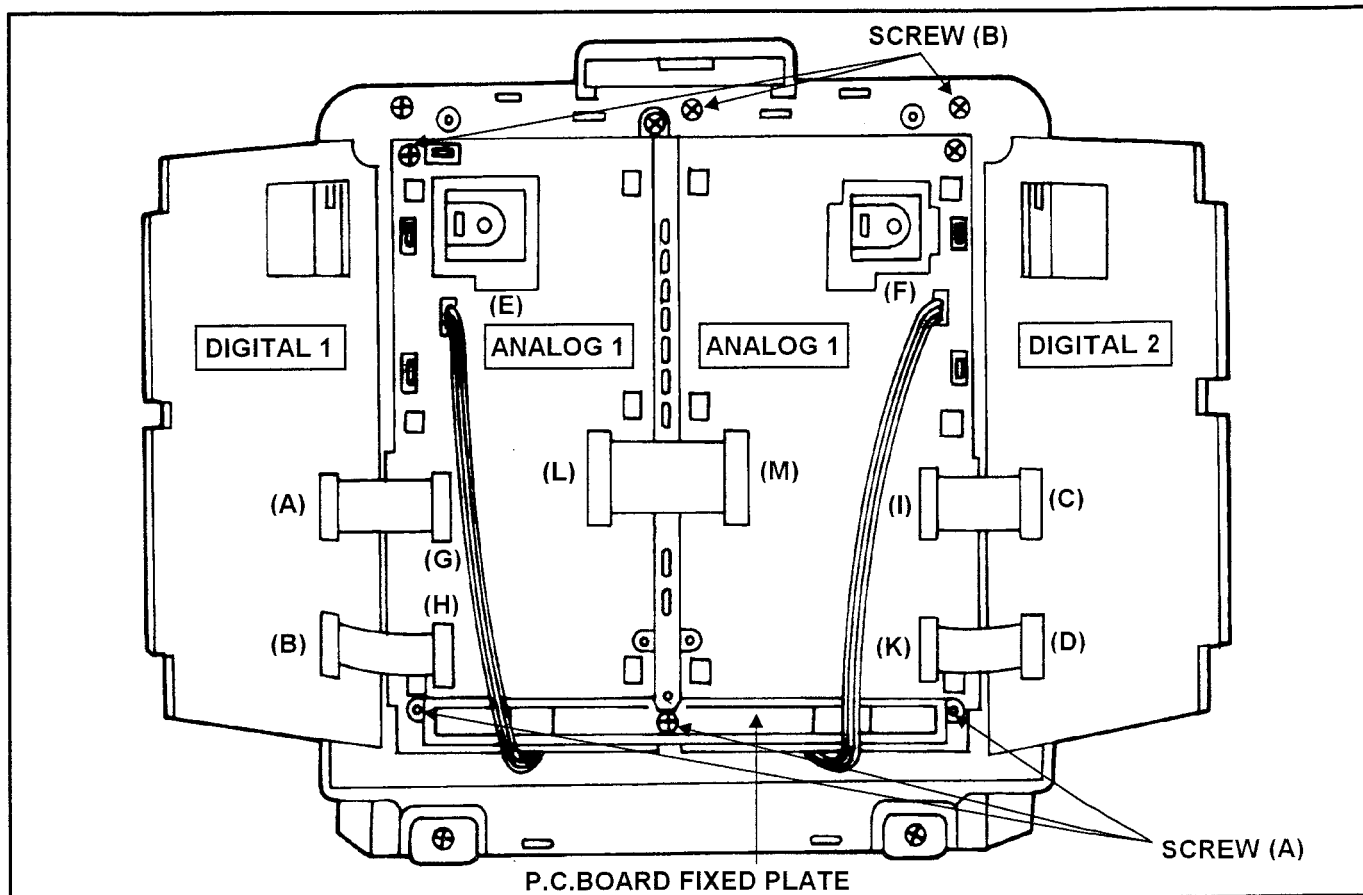


Figure 16

2-14. Removal of Analog 1 and 2 P.C.Board

1. Remove the Bottom Case Unit.
2. Remove the Digital 1 and 2 P.C.Board.
3. Disconnect the connector (E): P7809 on the Digital 1 P.C.Board and (F): P7810 on the Digital 2 P.C.Board as shown in Figure 16.
4. Unscrew the 3 screws (A) and remove the P.C.Board Fixed Plate as shown in Figure 16.
5. Disconnect the connector (G): P7803 and (H): P7805 on the Analog 1 P.C.Board as shown in Figure 16.
6. Disconnect the connector (I): P7803 and (K): P7805 on the Analog 2 P.C.Board as shown in Figure 16.
7. Remove the Flexible Cable, which is connected between connector (L): P7804 and (M): P7804 as shown in Figure 16.
8. Disconnect the connector (A): P7802, (B): P7801 and (C): P7812 on the Analog 1 P.C.Board as shown in Figure 17.
9. Disconnect the connector (D): P7801, (E): P7811 and (F): P7802 on the Analog 2 P.C.Board as shown in Figure 17.
10. Unscrew the 3 screws (B) as shown in Figure 16.

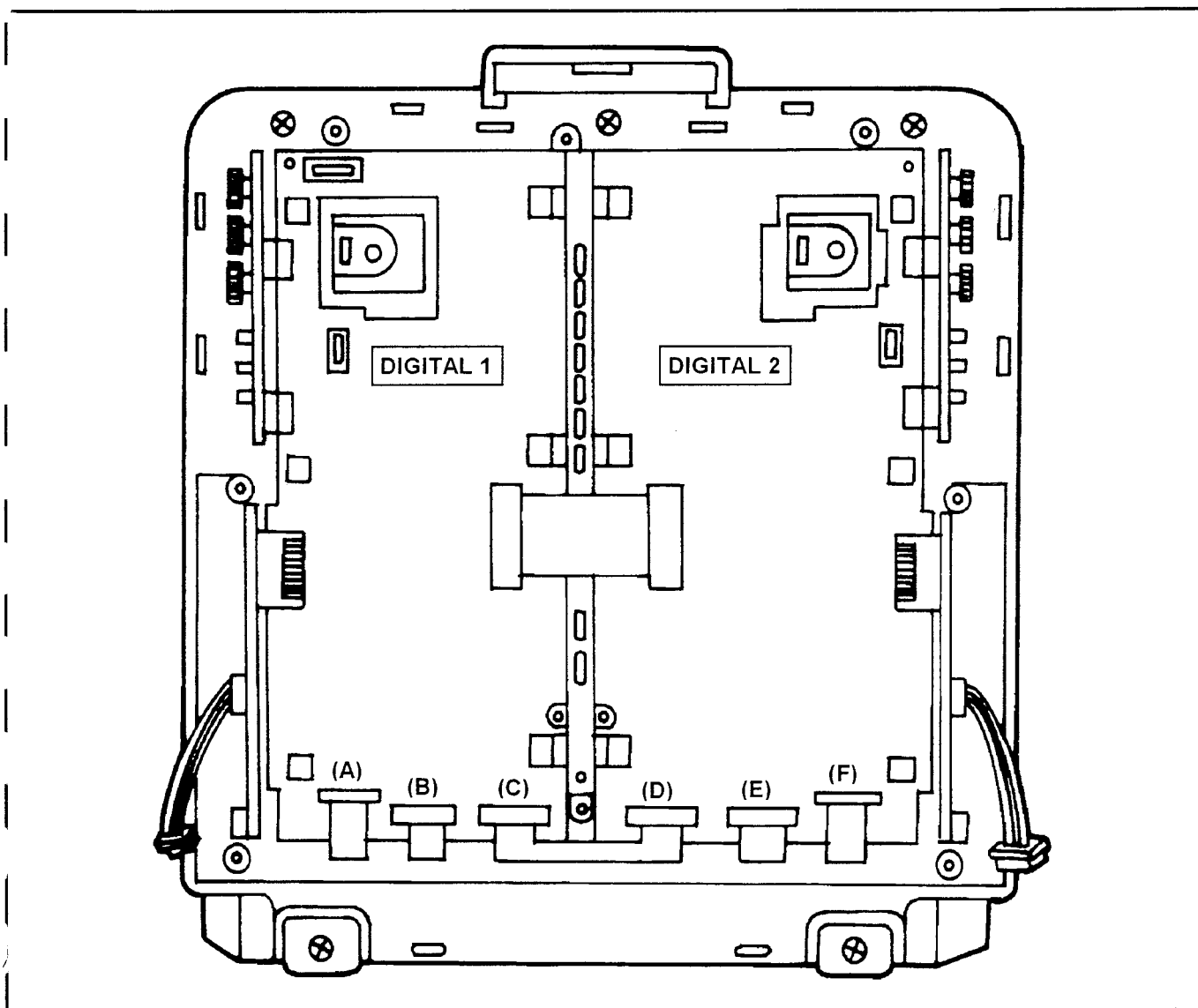


Figure 17

11. Unscrew the 2 screws (A) and disconnect the 2 connectors, then remove the Encoder VR L P.C.Board from Analog 1 P.C.Board as shown in Figure 18.
12. Unscrew the 2 screws (B) and remove the Encoder VR R P.C.Board from Analog 2 P.C.Board as shown in Figure 18.
13. Disconnect the connector P1001, P1002 and P1003 on the DD-Conv. 1 P.C.Board.
14. Unscrew the 2 screws (C) and disconnect the connector P1004 on the DD-Conv 1 P.C.Board as shown in Figure 18, then remove the DD-Conv 1 P.C.Board from Analog 1 P.C.Board.
15. Disconnect the connector P1201, P1202, P1203 and P1204 on the DD-Conv 2 P.C.Board.
16. Unscrew the 2 screws (D) and disconnect the connector P1206 on the DD-Conv 2 P.C.Board as shown in Figure 18, then remove the DD-Conv 2 P.C.Board from Analog 2 P.C.Board.
17. Unscrew the 4 screws (E) and 2 screws (F) as shown in Figure 18, then remove the Analog 1 and 2 P.C.Board.

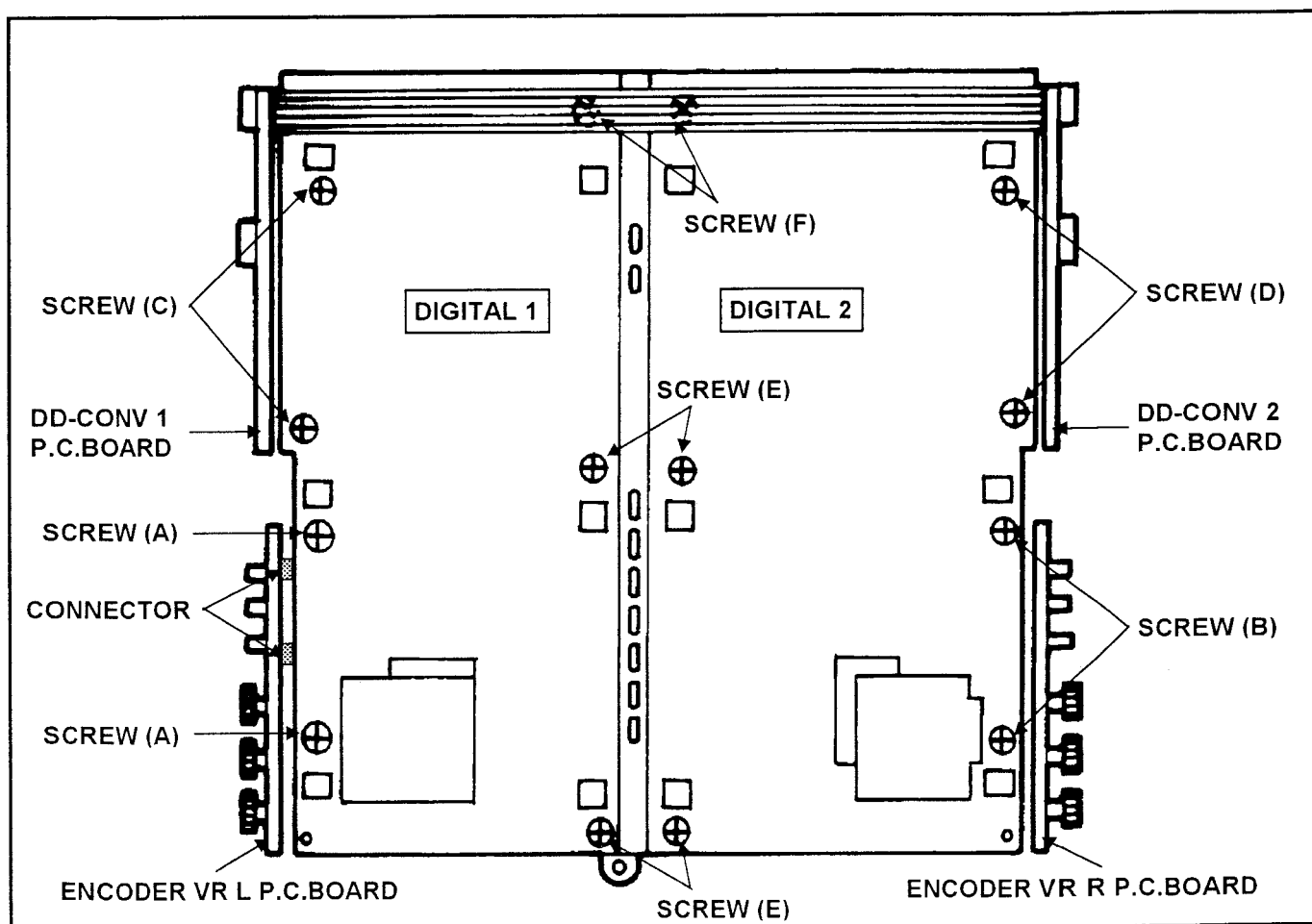


Figure 18

3. Manual Tape Eject

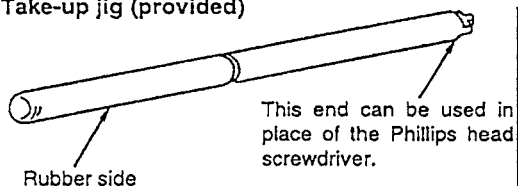
When a tape can not be ejected, because of Power failure or mechanical tape damage, remove the tape manually.

1. Turns power off and remove the top Case Unit.
2. Rotate the red plastic screw by a Phillips - head screwdriver counterclockwise pushing the screw. It needs to rotate about 30 times rotation until starting to move.
3. Since tape slack will develop when the post is unloaded, wind up the supply reel to take up the slack.

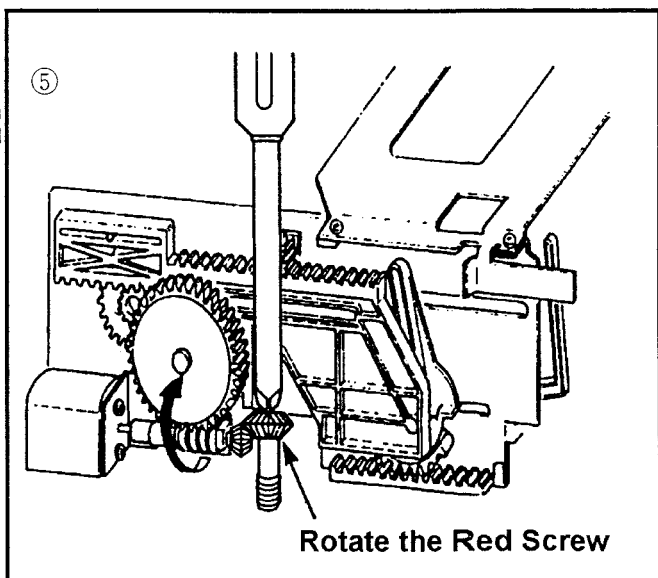
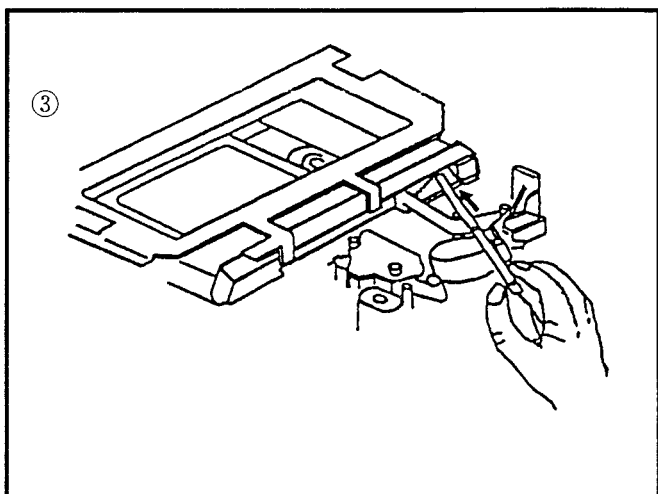
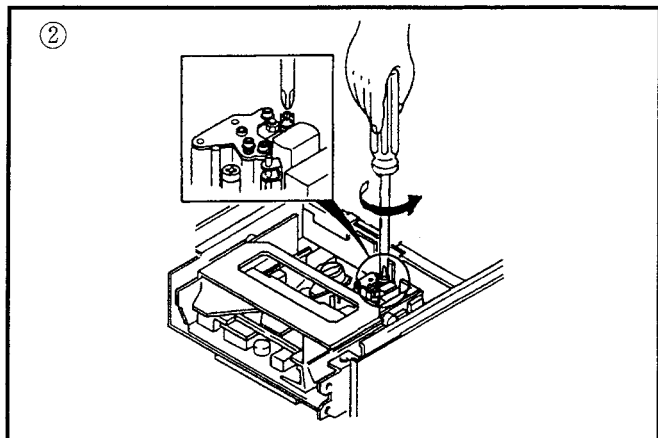
How to take up the slack (see ③)

- a. Insert the rubber side of the take-up jig into the cassette tape withdrawal opening on the VTR's mechanism side.
- b. Turn the flange part of the supply reel in the direction of take-up to take up the tape slack. (Take care not to damage the tape in the process.)

Take-up jig (provided)



4. Repeat item 2 and 3 until the tape is wound completely inside of the cassette.
5. When the tape is completely inside of the cassette, rotate the red screw in front of the worm gear of the cassette down motor clockwise by a Phillips-head screwdriver pushing the screw and remove the cassette cover does not bite the tape when the cover is closed.

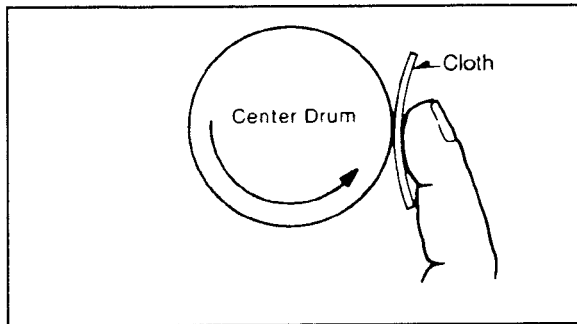


4. Cleaning Procedures

Make sure the power is OFF before cleaning. Use ethanol(more than 99% purity) as cleaning liquid.

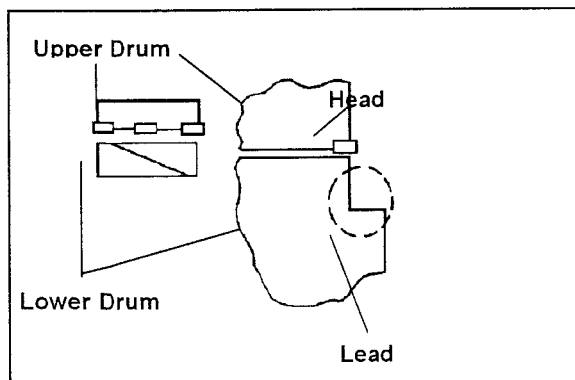
4-1. Cleaning of Head Chips :(Daily)

Clean heads by applying even pressure and rotating cylinder a few times. Never wipe in up and down motion. Never touch a cylinder by naked hand. First wipe with a cloth soaked by cleaning liquid. Then wipe with dry cloth.



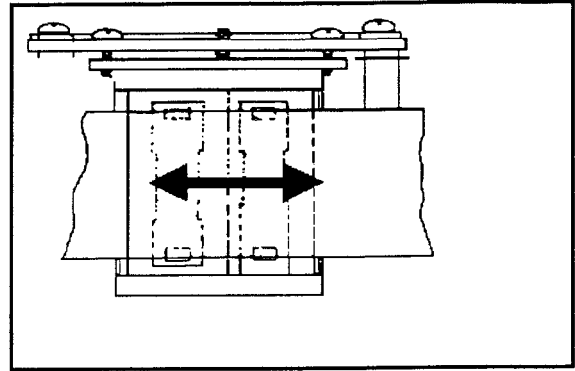
4-2. Cleaning of Drum Lead :(Weekly)

Be careful not to touch a head chip. Clean the drum lead with a pick.



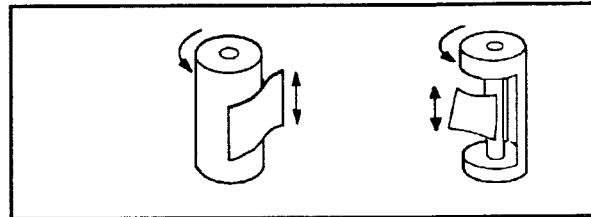
4-3. Cleaning of A/C Head :(Weekly)

Wipe the A/C head with a cloth soaked by cleaning liquid. Wipe again with a dry cloth.



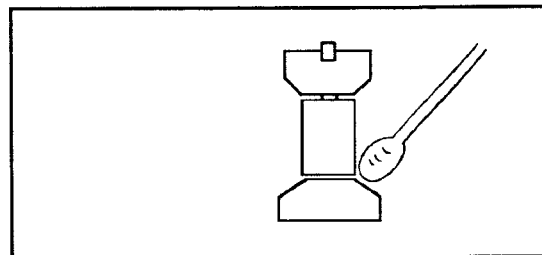
4-4. Cleaning of Pinch Roller and Capstan :(Weekly)

Wipe the Pinch Roller and Capstan with a cloth soaked by cleaning liquid.



4-5. Cleaning of Post :(Weekly)

Wind a cloth on a pick. Wipe each post dry with that pick. Wipe again with a dry cloth. For metal posts wipe with cleaning liquid. Then wipe dry again.



5. Mechanism Adjustment

Note: Please be careful the Test Point and volume on the Digital 1 P.C.Board, as indicated as below table, reference number is difference between P.C.Board and Schematic Diagram.

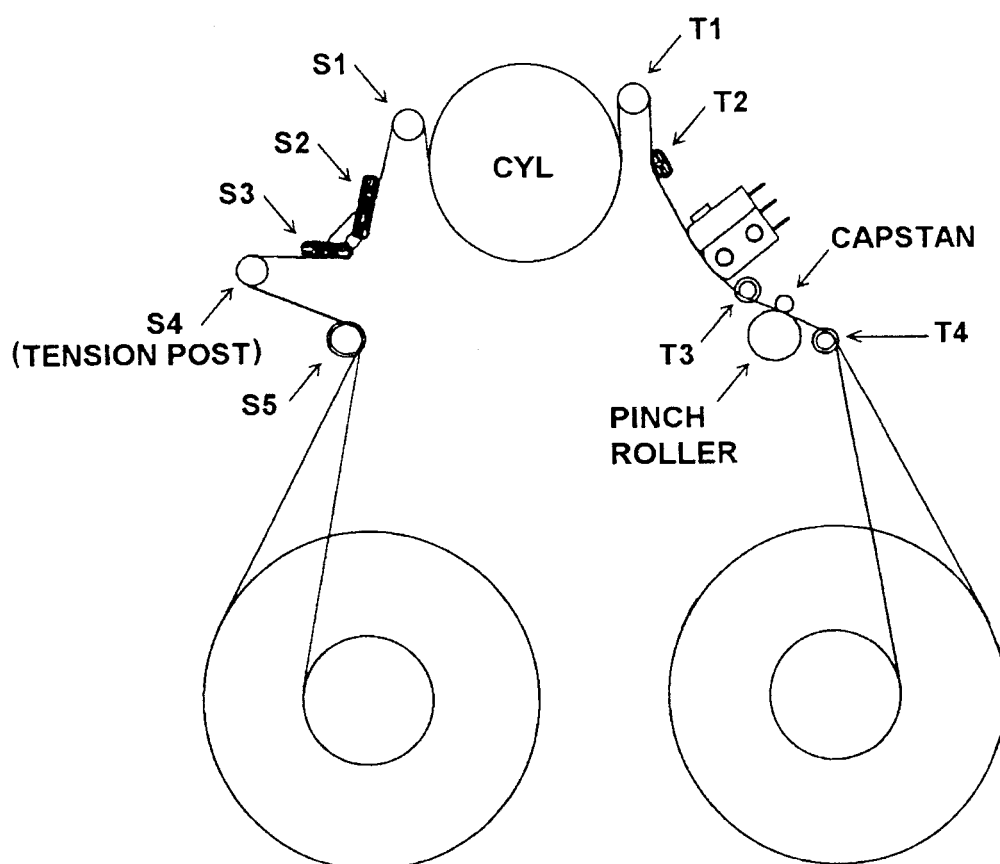
(Digital 1 P.C.Board)

	P.C.BOARD	SCHEMATIC
Tension Voltage	TP2701	TP35701
CTL	TP2705	TP35705
ATF Error	TP2706	TP35706
LISTA GND	TG2708	RG35708
Tension Gain VR	VR2701	VR35701

< How to Connect the Test Point >

Please set the stand (For example : DVCPRO cassette with cassette case) for lift up at front side of AJ-LT75. With drawing, please refer to item 5-44.

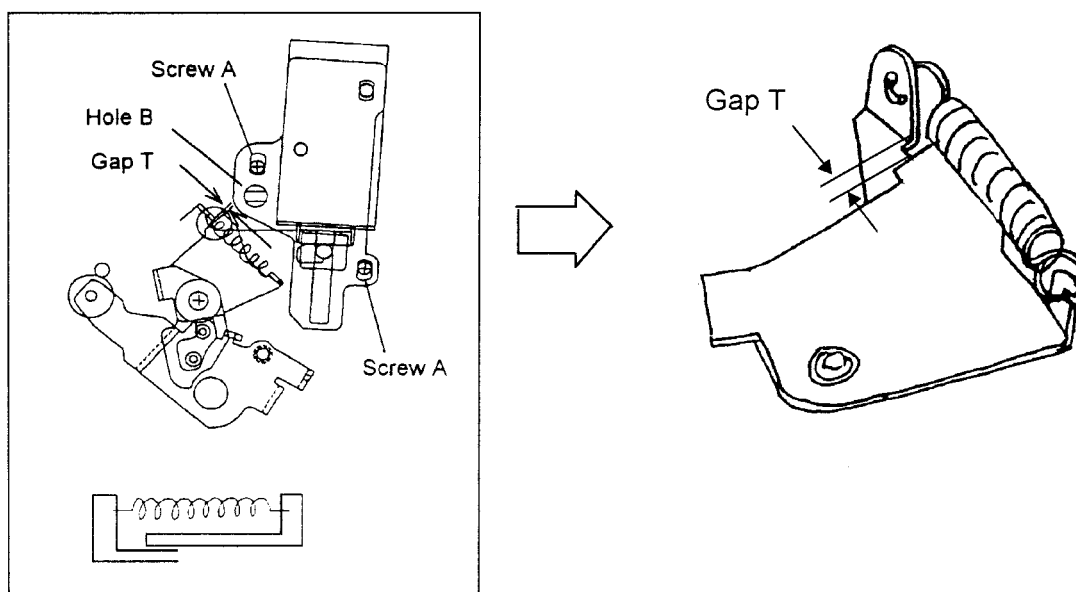
5-1. Name of tape transportation



5-3. Pinch Solenoid Position Adjustment

Specification	T = 0.3 mm
Mode	EJECT
Test Point	Gap T
Equipment and tool	VFK0357
Adjustment	Hole B

1. Turns power off. and close the pinch roller to the capstan shaft by hand.
2. Press the pinch solenoid by your hand so that the pinch roller is engaged to the capstan shaft.
3. Loosen the screw A and adjust Hole B by VFK0357 so that the gap "T" portion is in the specification.
4. Tighten the screw A after adjustment.



5-4. Main Brake Torque Confirmation

Specification	Tighten Direction more than 80 gcm Loosen Direction more than 15 gcm
Mode	
Test Point	Reel Table
Equipment and tool	VFK71 (150 g torque meter) VFK1191 (45 g torque meter) VFK1152 (Adapter)
Adjustment	

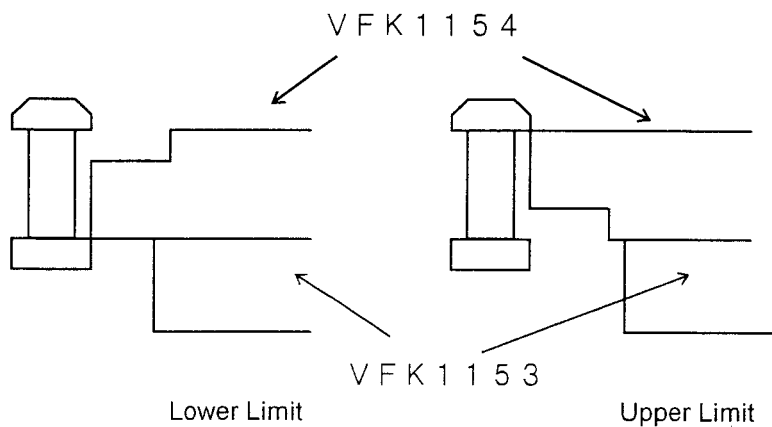
1. Remove the front loading unit.
2. Attach the Adapter (VKK1152) with the torque meter and attach the toque meter with the reel.
Then rotate the torque meter and read the value when the brake is release and the reel starts rotation both CW and CCW direction for both reel tables.

5-5. Post Height Pre-Adjustment

Name	Limit	Post Driver	
S4 Post	* Lower	VFK1149	
S5 Post	* Lower	VFK1149	
T3 Post	Lower	VFK1151 (2.5 mm Nut Box)	
T4 Post	Lower	VFK1151 (2.5 mm Nut Box)	

* :Turn S4 and S5 posts 1 round more counter clockwise from Lower Limit position.

Tool	VFK1153 (Mech. Plate), VFK1154 (Flange Tool) VFK1149, VFK1151
Mode	EJECT (Power OFF)



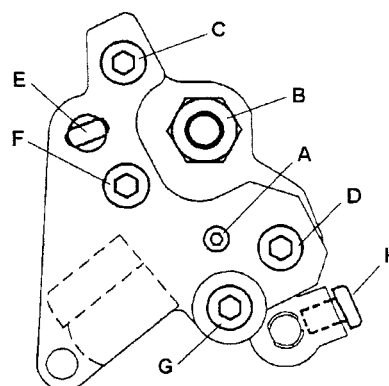
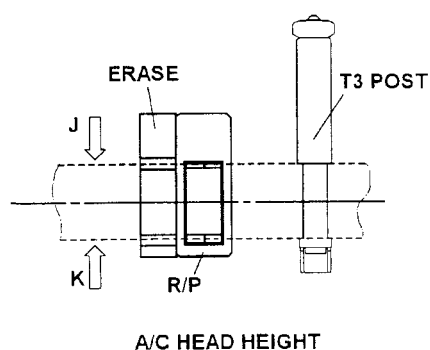
1. Confirm the Reel Table is located at M cassette position. If it is located at L or S cassette position, turns power on and insert M cassette and eject the M cassette.
2. Turns power off. Remove the front loading unit. Place the Mech. Plate (VFK1153) on the Reel Table.
3. Place the flange tool (VFK1154) as shown in the figure and adjust the post height.
4. Adjust the S4 and S5 post height by VFK1149 and adjust T3 and T4 by VFK1151.

5-6. A/C Head Height Pre Adjustment

Name of Adjustment	Screw	Adjustment	Tool
A/C Head Tilt	A	Screw A is not loosen.	VFK1178 (0.89 mm)
A/C Head Height	B	Adjust the height so that Cue R/P head is located at lower limit of the T3 post.	VFK1150 (5.5 mm)
A/C Head Horizontal Position	C D	Adjust the hole E, and slightly tighten the screw.	VFK1148 (1.5 mm)
	E	Adjust E at center position.	VFK0357
A/C Head Azimuth	F	Adjust the A/C head straight.	VFK1148 (1.5 mm)
A/C Head screws	G	Tighten the screw.	VFK1148 (1.5 mm)
	H	Adjust the height by screw B and slightly tighten it.	VFK1190

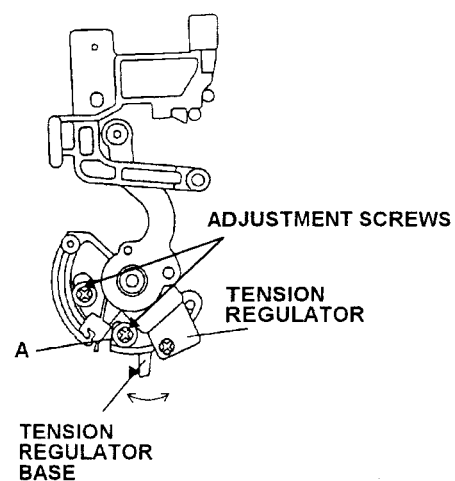
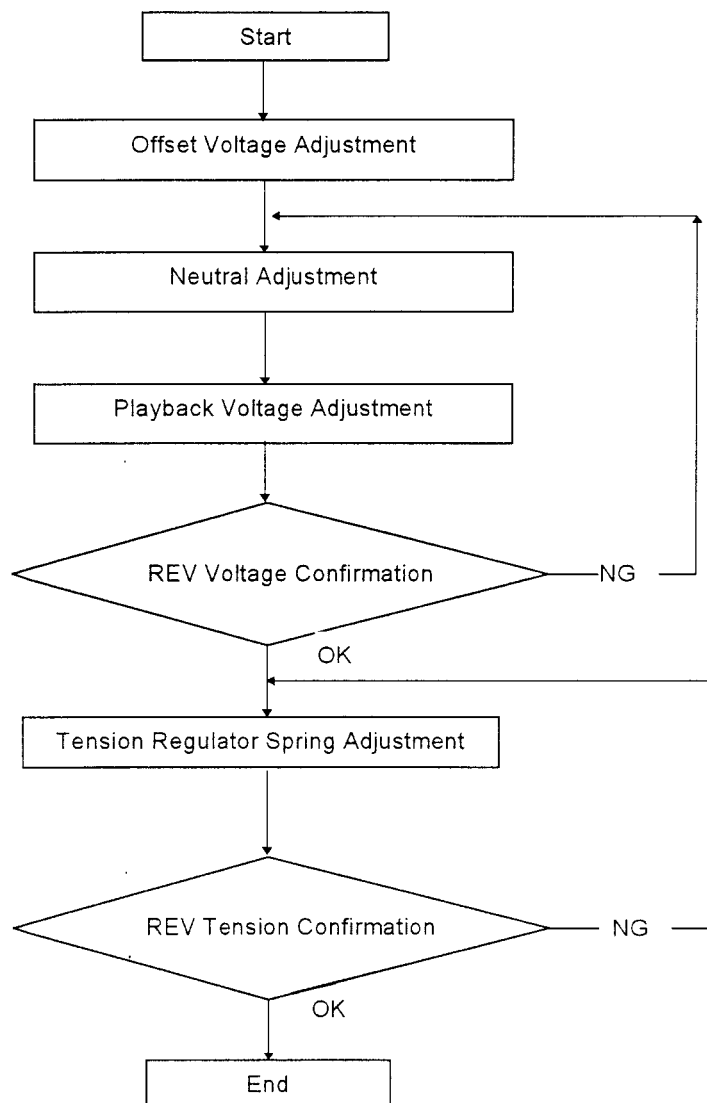
Torque of the each screw	C, D	2.5 kg cm
	G	1.0 kg cm

1. A/C Head Tilt Pre Adjustment
Confirm the screw A is toughed with the A/C head connection plate and it is not loosen.
2. A/C Head Pre Horizontal Position Adjustment
Loosen the screw C and D and adjust the hole E so that the position is at center and slightly tighten the screw C and D.
3. A/C Head Pre Height Adjustment
Adjust the A/C Head Height so that the Cue R/P head is located at the lower limit of the T3 post.
4. A/C Head Pre Azimuth Adjustment
Adjust the A/C Head Azimuth is parallel to the T3 post flange.
5. A/C head screws
Tighten the each screw according with the upper table and confirm the each adjustment again.



5-7. Tension Arm Adjustment Procedures

When this adjustment is done, melt the grew of the adjustment screws.



5-8. Tension Arm Offset Voltage Adjustment

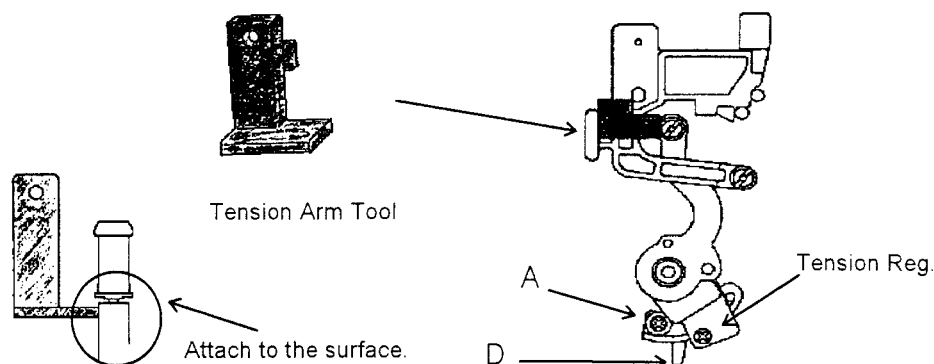
Specification	2.5±0.05 (V)		
Mode	EJECT		
Equipment	Digital Volt meter		
Test Point	VTR1 (Digital 1)		VTR2 (Digital 2)
	P.C.Board	Schematic	TP33001
	TP2701	TP35701	
Adjustment	A05 Tension OFST		A05 Tension OFST

Adjust A05 Tension OFST by rotating Jog Dial so that the DC voltage at Test Point (VTR1) and TP33001 (VTR2) is in the specification in EJECT mode

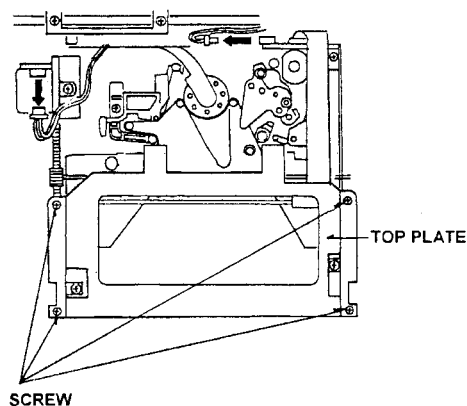
5-9. Tension Arm Neutral Position Adjustment

Specification	2.5 V \pm 0.1 V		
Mode	STOP		
Equipment	Digital Volt meter or Oscilloscope		
Adjustment	Tension Regulator Board Position		
Tool	VFK1208 (Tension Arm Tool: neutral, black, with hole)		
Test Point	VTR1 (Digital 1)		VTR2 (Digital 2)
	P.C.Board	Schematic	TP33001
	TP2701	TP35701	

1. Unscrew the 4 screws and remove the Top Plate on the front loading unit.
 2. Set the VFK1208.
 3. Connect the Digital Volt meter to Test point to the above table then move the tension regulator board so that the voltage is in the specification.
 4. Place the unit into the no tape loading mode (Refer to No tape loading procedure discribed as below).
- The tension regulator board adjustment procedures are as follows.
- Loosen screw A. Move the D portion with tweezers which are not magnetized. Then tighten the screw A.
 - **[No tape loading procedures are as follows.]**
Open the SERVO ADJUST menu on the Service Menu. Select the "T REEL TRQ" by JOG dial, and press SHIFT key, and loading is started. During adjustment, hold the SHIFT key.



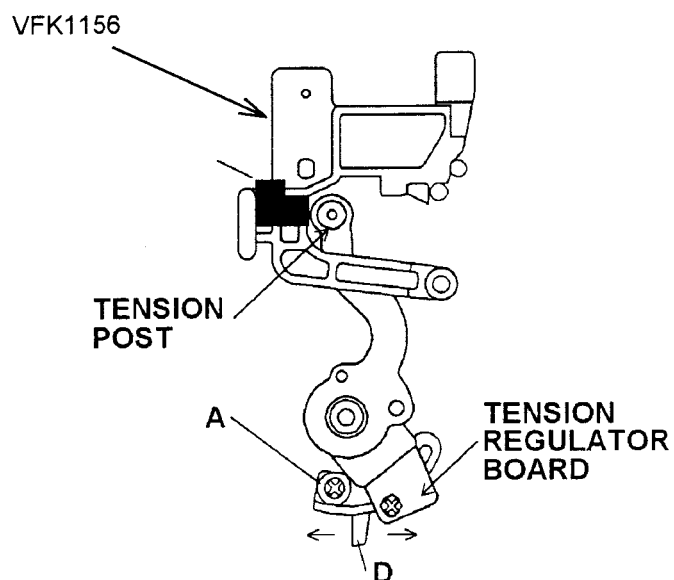
CAUTION: Don't touch the magnetize screw driver to S-Reel FG magnet portion, when the "D" portion is adjusting.



5-10. Tension Arm PLAY Voltage Adjustment

Specification	3.8±0.05(V)		
Mode	STOP		
Equipment	Digital Volt meter		
Tool	VFK1156		
Test Point	VTR1 (Digital 1)		VTR2 (Digital 2)
	P.C.Board	Schematic	TP33001
	TP2701	TP35701	
Adjustment	VR2701	VR35701	VR3001 (Digital 2)

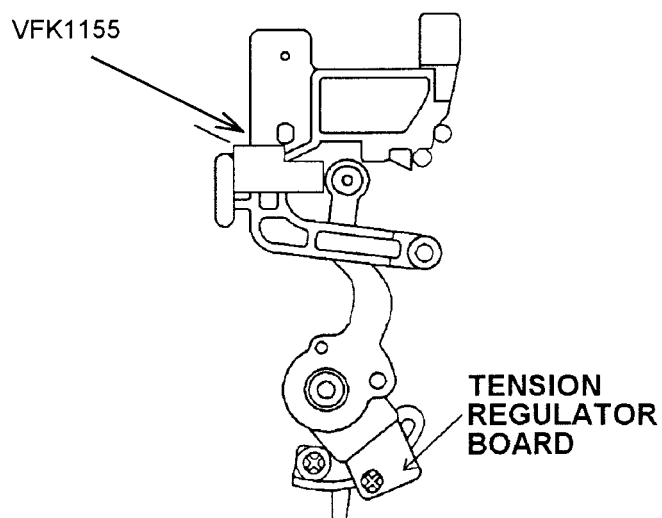
1. Set the VFK1156 at the specified position. (Tension Arm Tool : Play, Black color)
2. Place into loading mode without a tape.
3. Adjust VR35701 and VR3001 so that the Voltage of Test Point in STOP mode is in the specification.



5-11. Tension Arm REV Voltage Confirmation

Specification	1.2±0.3(V)		
Mode	STOP		
Equipment	Digital Volt meter		
Tool	VFK1155 (Tension Arm Tool : REV, White)		
Test Point	VTR1 (Digital 1)		VTR2 (Digital 2)
	P.C.Board	Schematic	TP33001
	TP2701	TP35701	

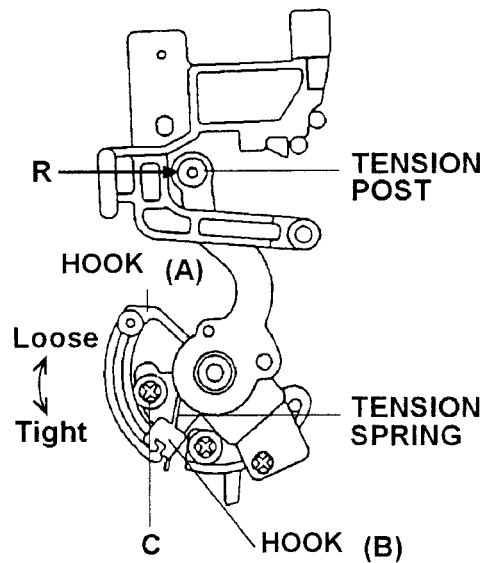
1. Set VFK1155 (Tension Arm Tool : REV, White)to the specified position.
2. Place the VTR into the no tape loading.
3. Confirm the voltage at Test Point is in the specification in STOP mode.
4. If it is out of specification, adjust "5-9. Tension Arm Neutral Position Adjustment".



5-12. Tension Arm Tension Regulator Spring Adjustment

Specification	11±1(gf)		
Mode	STOP		
Equipment	Digital Volt meter		
Adjustment	Tension Regulator Spring Hook (B) Position		
Tool	VFK1188(30g Dial Tension Gauge)		
Test Point	VTR1 (Digital 1)		VTR2 (Digital 2)
	P.C.Board	Schematic	TP33001
	TP2701	TP35701	

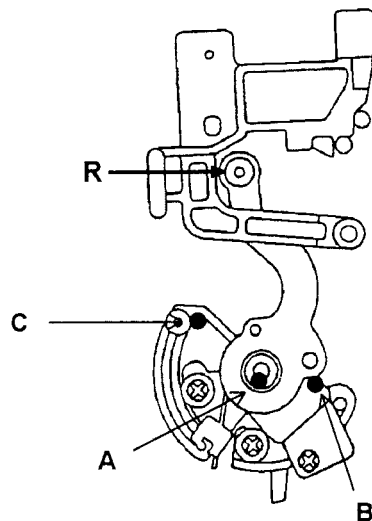
1. Place the VTR into no tape loading.
2. Press the post at the R position by Dial Tension Gauge until the voltage at Test Point is 3.8 V (Play position).
3. Adjust Tension Regulator Spring Hook (B) so that the tension is in the specification.
Adjust the Tension Regulator Hook (B) position as follows.
 - Loosen screw C.
 - Adjust the position.
 - Tighten screw C.



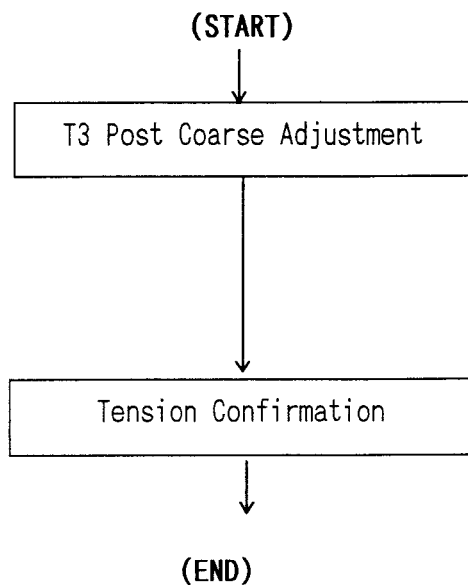
5-13. REV Tension Confirmation

Specification	REV Tension : $18 \pm 2(g)$		
Mode	STOP		
Equipment	Digital Volt meter		
Adjustment			
Tool	VFK1188(30g Dial Tension Gauge)		
Test Point	VTR1 (Digital 1)		VTR2 (Digital 2)
	P.C.Board	Schematic	TP33001
	TP2701	TP35701	

1. Place the VTR into no tape loading.
2. Press the post at the R position by Dial Tension Gauge until the voltage at Test Point is 1.2 V (REV position).
3. Confirm the tension is in the specification. If it is not, adjust Tension Regulator Adjustment again.
4. Grew the screw A, B and C after Tension Arm adjustment. The grew quantity at B is half of A and C.



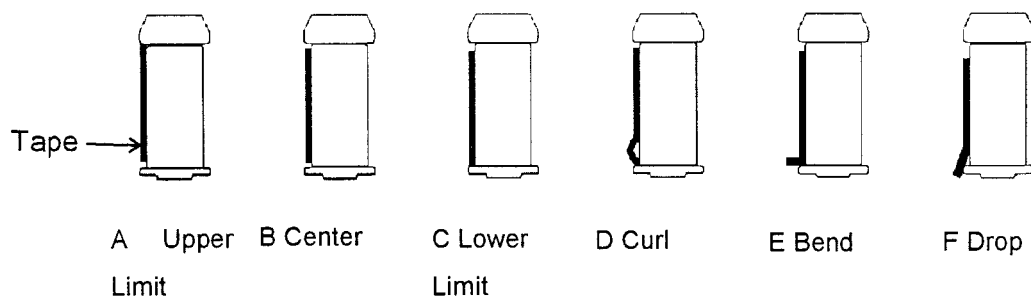
5-14. Tension Confirmation Procedures



5-15.T3 Post Coarse Adjustment

Specification	A, B, C shows good condition, D, E, F shows bad condition.
Mode	PLAY
Adjustment	T3 Post Height
Tool	VFK1151 (Box Driver 2.5 mm)
Tape	Working Tape (This adjustment may damage the tape.)

Place the unit into PLAY mode and adjust T3 Post height so that the tape runs without any tape damage.

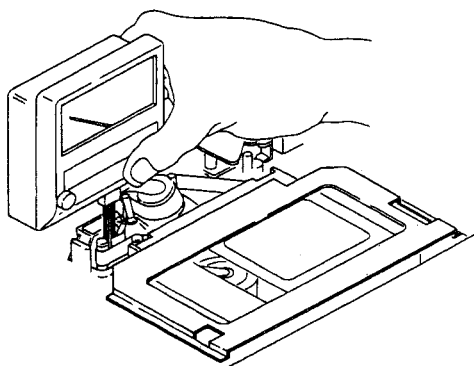


5-16. Play Mode Tension Confirmation

Specification	6 ± 1 g PLAY
Tool	VFK1145 (Back Tension Meter)

1. Playback the beginning part of the 63 min Tape.
2. Insert the back tension meter between S3 and S4 post (Tension arm).
3. Confirm the tension is in the specification.

NOTE: Be careful not to give some tape damage.

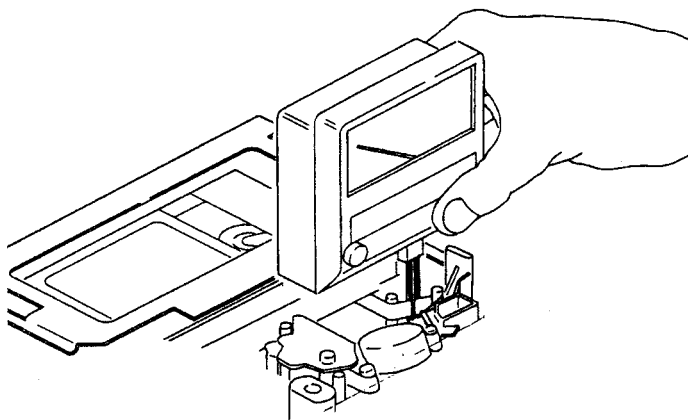


5-17. Reverse Tension Confirmation

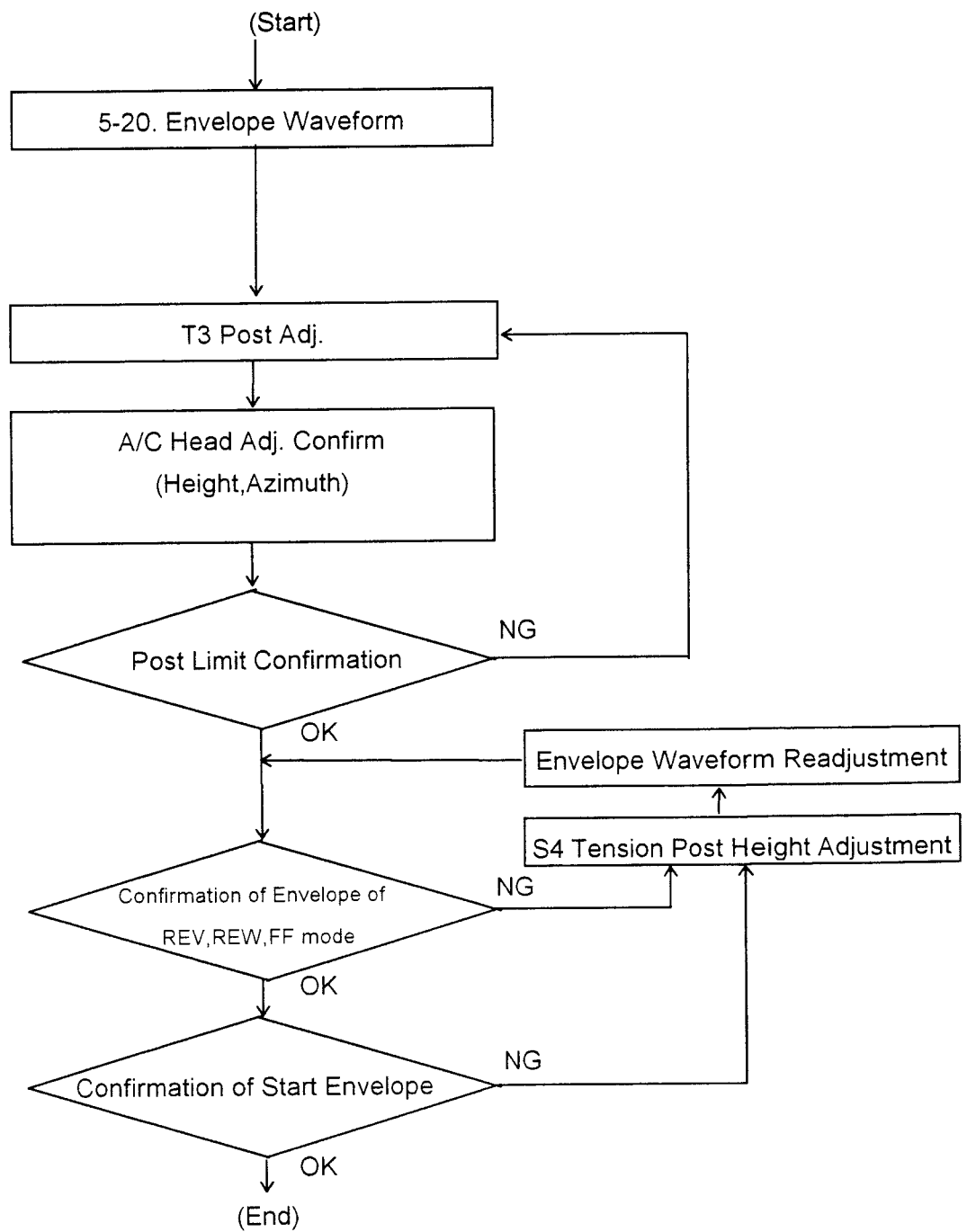
Specification	$9 \pm 2g$ REV($\times 1$)
Tool	VFK1145 (Back Tension Meter)

1. Set the 63 min Tape and place the unit into Reverse mode.
2. Insert the back tension meter between S5 and S4 post (Tension arm).
3. Confirm the tension is in the specification.

NOTE: Be careful not to give some tape damage.



5-18. Tape Pass Adjustment Procedures



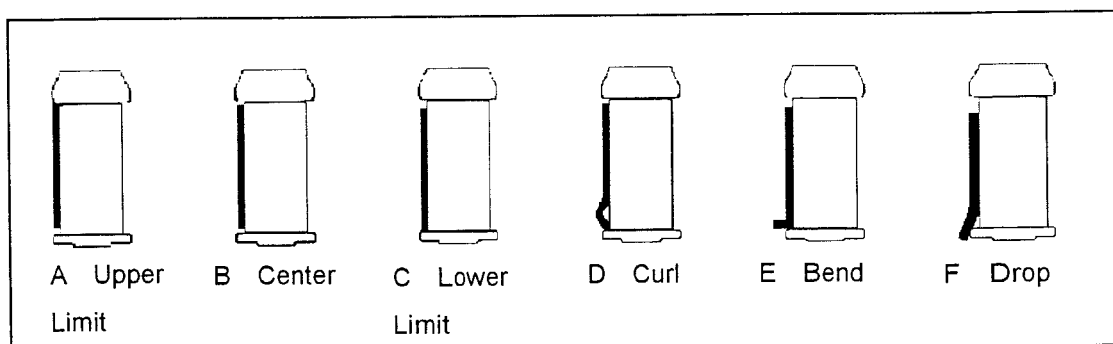
5-19. Tape Pass Adjustment (COARSE) and Tape Pass Limit Confirmation

Specification	Confirm the each post limitation is as shown in the table.
Mode	PLAY
Adjustment	A/C Head Screw
Tool	VFK1149 (Post Driver) VFK1150 (Box Driver 5.5mm) VFK1151 (Box Driver 2.5mm) VFK1178 (0.89mm) . . . Screw A VFK1148 (1.5mm) . . . Screw G
Tape	NTSC: VFM3580KM (Alignment Tape No.1 Color Bar Portion) PAL: VFM3680KM(Alignment Tape No.1 Color Bar Portion)

Post Name	Tape Limit (Refer the figure)						Adjustment	
	A	B	C	D	E	F		
S5 Post	×	○	○	×	×	×	S5 Post	
S4 Tension Post	×	×	○	×	×	×	Tension Post Height	
S1 Post	○	×	×	×	×	×	Envelope Adjustment	
T1 Post	○	×	×	×	×	×		
A/C Head							CTL Adjustment	
T3 Post	×	×	○	×	×	×	T3 Post Height	
T4 Post	×	○	○	×	×	×	T4 Post Height	

○ means acceptable. × means not acceptable.

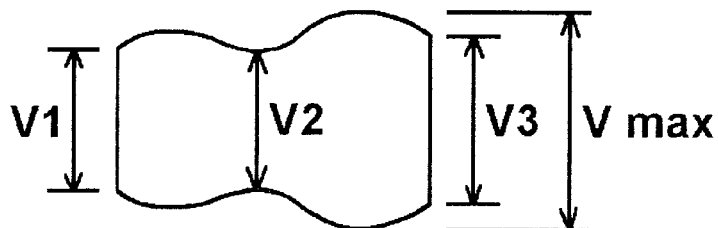
1. Place unit into PLAY mode, and adjust the height of each post do not to occurred tape damage.
2. Regarding the S1 Post, T1 Post and A/C Head adjustment, refer to item "Envelope Waveform Adjustment" and "A/C Head Azimuth Adjustment".
3. Confirm the tape pass limit of each post as below figure.



5-20. Envelope Waveform Adjustment

Specification	$V1/V_{max}, V2/V_{max}, V3/V_{max} \geq 0.8$
Mode	ATF Control PLAY mode
Test Point	TP5001: R/P envelope (Digital 1 and 2) TP6001: TRIG.(Digital 1 and 2)
Equipment	Oscilloscope
Adjustment	S1, T1 Post Height
Tool	VFK1149 (Post Driver)
Tape	NTSC: VFM3580KM (Alignment Tape No.1 Color Bar Portion) PAL: VFM3680KM(Alignment Tape No.1 Color Bar Portion)

1. Playback the color bar portion of the alignment tape.
2. Adjust S1 and T1 post height so that the R/P envelope output is in the specification.
3. When the S1 and T1 posts are adjusted, first raise the post height and make small the entrance and exit side of the envelope, then down the post until envelope becomes flat.
4. Adjust T1 post and makes exit side of the envelope flat then adjust S1 post.
5. After the adjustment, unload the tape then loading the tape. Confirm the waveform style.
5. After the adjustment, unload the tape then loading the tape. Confirm the waveform style.

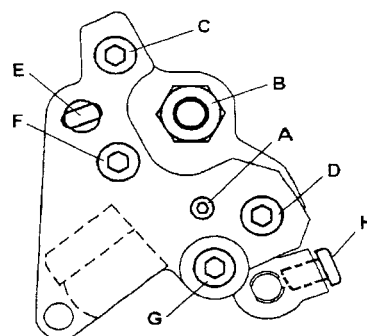
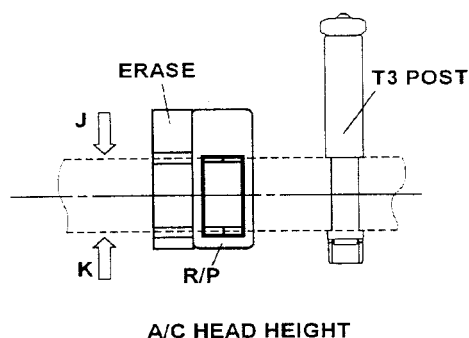


Envelope

5-22. A/C Head Adjustment Method

Adjustment Item	Screw	Adjustment Method
A/C Head Tilt Adjustment	A VFK1178	Tighten direction --- Decrease CUE Loosen direction --- Increase CUE
A/C Head Height	B VFK1150	Tighten direction --- Output increase when tape is up (arrow k) Loosen direction --- Output increase when tape is down (arrow j)
Azimuth	F VFK1148	Phase is adjusted by screw F.
A/C Head Horizontal Position (Torque 2.5kg.cm)	C D VFK1209 VFK0912	Adjust X value by VFK0357 (Eccentric screwdriver) at long hole. Then tighten the screw C and D to fix the A/C head horizontal position.
A/C Head Tilt (Torque 1kg.cm)	G Same C and D	Screw G --- Always be tighten during adjustment.
A/C Head Fix	H VFK1190	Screw H --- After height adjustment, tighten the screw H to fix the A/C head height.

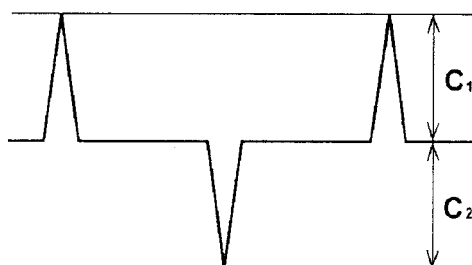
1. Always the screw G must be tightened while each adjustments is done.
2. After the A/C head tilt adjustment, confirm the screw A is not loosen. (The screw A must be touch with the A/C head set plate.)
3. After the A/C head tilt adjustment, confirm the tape damage at T3 post.
4. When A/C head height is adjusted, loosen the screw H to start, and after adjustment completion, tighten screw B.
5. Each adjustment must be completed with tightening the screw.
6. Each adjustment must be alternately adjusted or confirmed with the envelope exit side adjustment.



5-23. A/C Head Height Adjustment

Specification	CTL Output : $C_1, C_2 \geq 160\text{mV}$		
Mode	PLAY		
Equipment	Oscilloscope		
Adjustment	A/C Head Screw B, H		
Tool	VFK1150 (Box driver), VFK1190 (Hex)		
Tape	NTSC: VFM3580KM (Alignment Tape No.1 Color Bar Portion) PAL: VFM3680KM(Alignment Tape No.1 Color Bar Portion) * Dubbing tape is recommendable		
Test Point	VTR1 (Digital 1)		VTR2 (Digital 2)
	P.C.Board	Schematic	TP33005
	TP2705	TP35705	

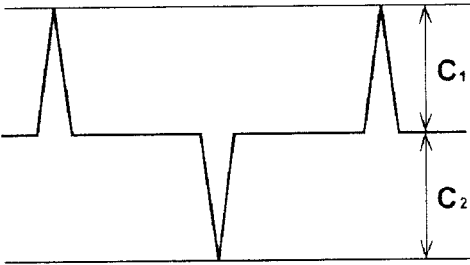
1. Connect the scope to Test Point on the board, and adjust the A/C head height so that the CTL output level is in the specification.
2. To adjust the height, loosen the screw H and adjust by nut B.
3. When A/C head height is changed, the Azimuth is changed also, so adjust A/C head height and A/C azimuth adjustment alternately.
4. When the screw H is tighten, the A/C head tilt is changed, so the confirmation must be done after tightening the screw H.



5-24. A/C Head Azimuth Adjustment

Specification	CTL Output : C1, C2 = C1 max, C2 max		
Mode	PLAY		
Equipment	Oscilloscope		
Adjustment	A/C Head Screw F		
Tool	VFK1148 (Box driver)		
Tape	NTSC: VFM3580KM (Alignment Tape No.1 Color Bar Portion) PAL: VFM3680KM(Alignment Tape No.1 Color Bar Portion) * Dubbing tape is recommendable		
Test Point	VTR1 (Digital 1)		VTR2 (Digital 2)
	P.C.Board	Schematic	TP33005
	TP2705	TP35705	

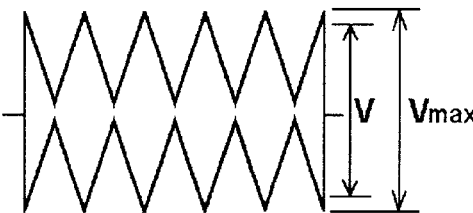
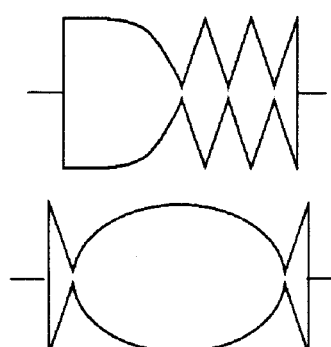
1. Connect the scope to Test Point on the Servo board and adjust the Screw F so that the CTL Output becomes maximum.
2. When the A/C Head Azimuth is changed, the A/C Head Height is changed also, so adjust A/C head height and A/C azimuth adjustment alternately.



5-25. Confirmation of Envelope of REV, REW, FF mode

Specification	Refer to the following figure.
Mode	REV , REW and FF
Test Point	TP5001:R/P Envelope (Digital 1 and 2)
Equipment	Oscilloscope
Tape	NTSC: VFM3580KM (Alignment Tape No.1 Color Bar Portion) PAL: VFM3680KM(Alignment Tape No.1 Color Bar Portion)

Envelope waveform confirmation

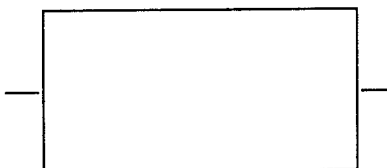
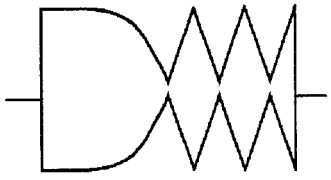
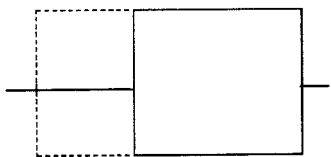
Mode: REV , REW and FF	Evaluation
	<p>OK</p> <ul style="list-style-type: none"> Waveform must be diamond style. All The peak must be more than 80% of the maximum level. <p>$V/V_{max} \geq 0.8$</p>
	<p>NG</p>

1. Connect the scope to TP5001 and confirm the envelope style is in the specification in REV, REW and FF mode.
2. If it is out of specification , adjust S4 Post(Tension Post) Height again.

5-26. Confirm of PLAY Start Envelope

Specification	In the Play mode envelope become flat momentarily.
Mode	FF → PLAY REV and REW → PLAY Loading Completion → PLAY
Test Point	TP5001 : R/P Envelope (Digital 1 and 2)
Equipment	Oscilloscope
Tape	Recorded L Cassette (123min.) Tape Begin

Envelope Confirmation

PLAY Start	Evaluation
	<p>OK</p> <p>(Envelope becomes flat momentarily)</p>
 	<p>NG</p>

1. Observe the envelope by oscilloscope and confirm the envelope is in the specification in the transition from REW to PLAY, from REV to PLAY and Loading completion to PLAY.
2. If it is not adjust S4 Post Height (ITEM 5-27).
3. This adjustment must be done after Envelope Waveform Adjustment.

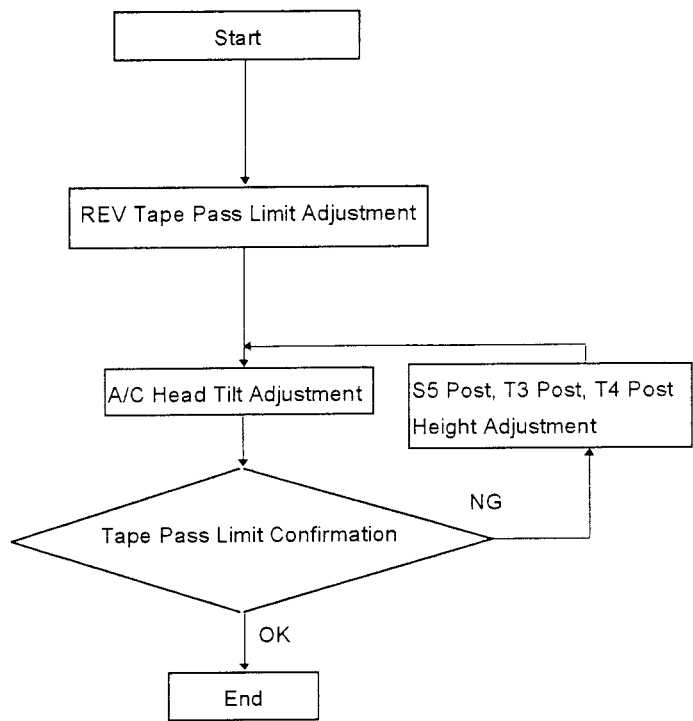
5-27. S4 Tension Post Height Adjustment

Specification	Envelope becomes flat momentarily at PLAY start.
Mode	PLAY
Adjustment	Tension Post (S4 Post) S1 and T1 Post
Equipment	Oscilloscope
Tool	VFK1149 (Post Driver)
Tape	NTSC: VFM3580KM (Alignment Tape No.1 Color Bar Portion) PAL: VFM3680KM(Alignment Tape No.1 Color Bar Portion)

※ This adjustment should be done when the 5-20 "Envelope Waveform Adjustment", 5-25 "Confirmation of REV and FF" or 5-26 "Confirmation of Play Start Envelope" can not be achieved the specification.

1. Rotate the S4 tension post height 90 degrees CCW (counterclockwise).
2. Adjust S1 and T1 post height again. Refer to the 5-20 "Envelope Waveform Adjustment".
3. Confirm the Play Start envelope waveform (Item 5-26).
4. If it is not in the specification, repeat item 1 to 3. The maximum rotation angle is 360 degrees.
5. Even the height is out of specification, confirm 5-5 "Post Height Pre Adjustment".

5-28. Tape Limitation Confirmation Procedures



The Tape Pass Limit Confirmation must be done with MP Tape (M cassette) and ME Tape (S cassette).

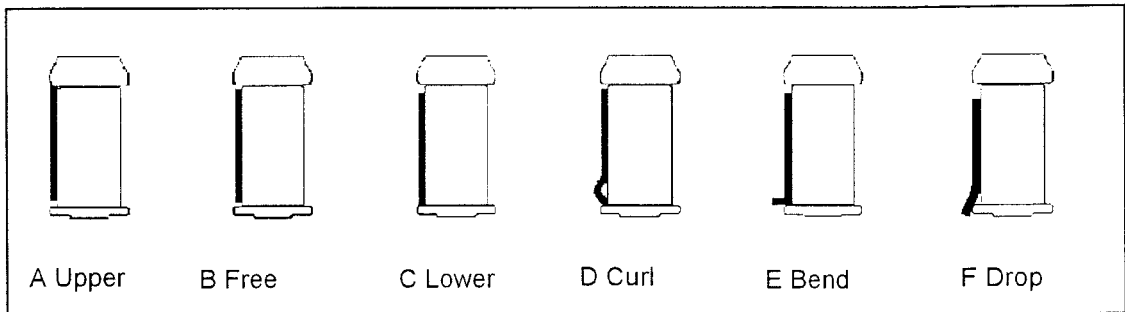
5-29. REV Tape Pass Limit Adjustment

Specification	Confirm the each post limitation is as shown in the table.
Mode	REV
Tool	VFK1149(Post Driver) VFK1151(Box Driver 2.5mm) VFK1178(0.89mm)···Screw A VFK1148(1.5mm)···Screw G
Tape	NTSC: VFM3580KM (Alignment Tape No.1 Color Bar Portion) PAL: VFM3680KM (Alignment Tape No.1 Color Bar Portion)

Post Name	Tape Limit (Refer the figure)						Adjustment	
	A	B	C	D	E	F		
S5 Post	○	○	○	X	X	X	S5 Post	
S4 Tension Post	X	○	○	X	X	X	Tension Post Height	
S1 Post	○	X	X	X	X	X	(Envelope Adjustment)	
T1 Post	○	○	○	X	X	X		
T3 Post	X	X	○	X	X	X	T3 Post Height	
T4 Post	X	X	○	X	X	X	T4 Post Height	

○ means acceptable. X means not acceptable.

1. Place unit into REV mode, and adjust T4 so that the Lower limit touch the tape.
2. Confirm the T4 post is at lower limit, then adjust T3 post is at lower limit.
3. Confirm the tape pass limit of each post.
4. These adjustment must be done after envelope waveform adjustment.

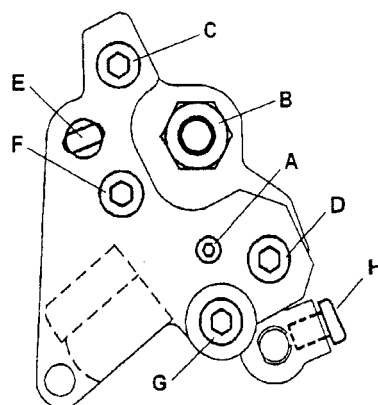
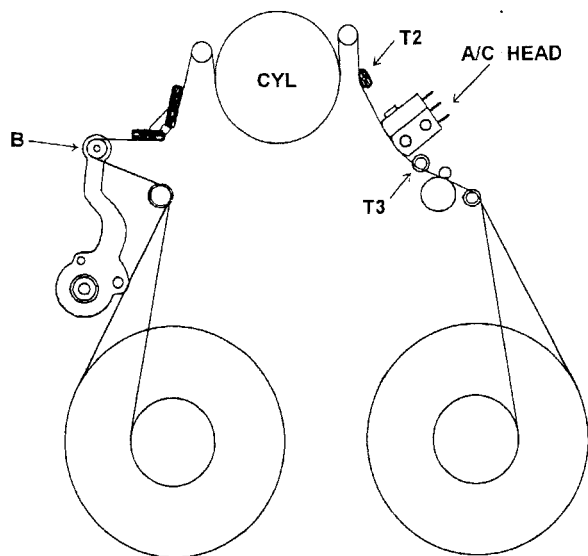


5-30. A/C Head Tilt Adjustment

Specification	T3 post must be lower limit in PLAY mode. No tape damage and no tape curling
Mode	PLAY
Adjustment	A/C Head screw A, G
Tool	VFK1178 (0.89 mm) --- Screw A VFK1148 (1.5 mm) --- Screw G
Tape	NTSC: VFM3580KM (Alignment Tape No.1 Color Bar Portion) PAL: VFM3680KM (Alignment Tape No.1 Color Bar Portion)

Adjustment Item	Screw	Adjustment Method
A/C Head Tilt Adjustment	A	Tighten direction --- Tape is up at T3 Post. Loosen direction --- Tape is down at T3 Post.
A/C Head Fix (Torque = 1.0 kg cm)	G	Keep tightening for each adjustment.

1. This adjustment must be done after "REV Tape Pass Limit Adjustment".
2. Place the VTR in PLAY mode, and confirm the T3 Post limit and adjust A/C head tilt is in the specification.
3. When complete the A/C head adjustment, final direction of screw rotation must be tighten direction.
4. Adjust alternately with each A/C head adjustment (Azimuth, Height).



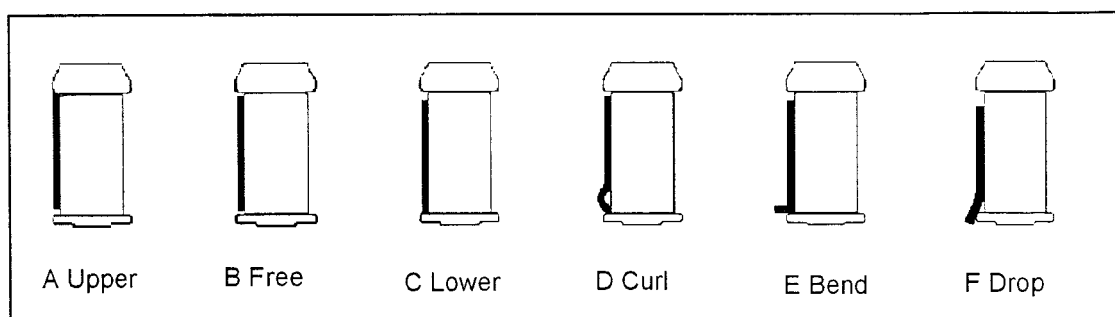
5-31. PLAY Tape Pass Limit Confirmation

Specification	Confirm the each post limitation is as shown in the table.
Mode	PLAY
Tool	VFK1149(Post Driver) VFK1151(Box Driver 2.5mm) VFK1178(0.89mm)···Screw A VFK1148(1.5mm)···Screw G
Tape	M Cassette (MP Tape) Tape Begin and Tape End S Cassette (ME Tape) Tape Begin and Tape End

Post Name	Tape Limit (Refer the figure)						Adjustment	
	A	B	C	D	E	F		
S5 Post	X	○	○	X	X	X	S5 Post	
S4 Tension Post	X	X	○	X	X	X	Tension Post Height	
S1 Post	○	X	X	X	X	X	(Envelope Adjustment)	
T1 Post	○	X	X	X	X	X		
T3 Post	X	X	○	X	X	X	T3 Post Height A/C Head Tilt	
T4 Post	X	○	○	X	X	X	T4 Post Height	

○ means acceptable. X means not acceptable.

1. Place the unit into PLAY mode, and confirm the each post limit is in the specification as shown in the upper table.
2. This adjustment must be done after "Envelope Waveform Adjustment".
3. If it is out of specification, adjust each item again.
4. If A/C head tilt is out of specification adjust "A/C Head Tilt Adjustment".
5. Regarding T3 and T4 posts, confirm and adjust this confirmation alternately with "REV Tape Pass Limit Confirmation" and "Loading Tape Pass Limit Confirmation".
6. Confirm the tape pass limit for both M cassette and S cassette.



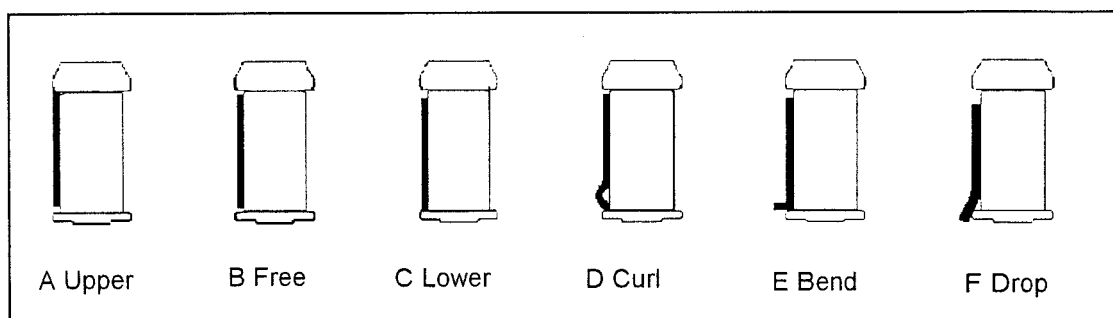
5-32. REV Tape Pass Limit Confirmation

Specification	Confirm the each post limitation is as shown in the table.
Mode	PLAY
Tool	VFK1149(Post Driver) VFK1151(Box Driver 2.5mm)
Tape	M Cassette (MP Tape) Tape Begin and Tape End S Cassette (ME Tape) Tape Begin and Tape End

Post Name	Tape Limit (Refer the figure)						Adjustment	
	A	B	C	D	E	F		
S5 Post	○	○	○	X	X	X	S5 Post	
S4 Tension Post	X	○	○	X	X	X	Tension Post Height	
S1 Post	○	X	X	X	X	X	(Envelope Adjustment)	
T1 Post	○	○	○	X	X	X		
T3 Post	X	X	○	X	X	X	T3 Post Height	
T4 Post	X	X	○	X	X	X	T4 Post Height	

○ means acceptable. X means not acceptable.

1. Place the unit into REV mode, and confirm the each post limit is in the specification as shown in the upper table.
2. This adjustment must be done after "Envelope Waveform Adjustment".
3. If it is out of specification, adjust each item again.
4. This adjustment should be done alternately with PLAY Limit Adjustment.
5. If adjust T3 post, confirm "Loading Tape Pass Limit Confirmation".
6. Confirm the tape pass limit for both M cassette and S cassette.



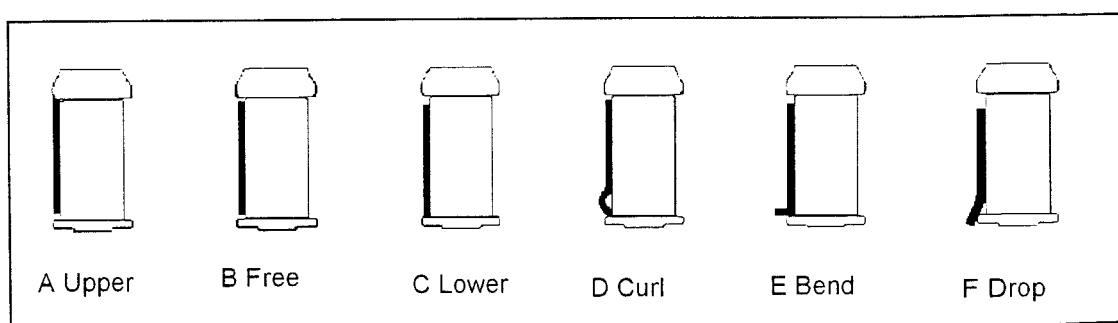
5-33. FF, REW Tape Pass Limit Confirmation

Specification	Confirm the each post limitation is as shown in the table.
Mode	FF, REW
Tool	VFK1149(Post Driver) VFK1151(Box Driver 2.5mm)
Tape	M Cassette (MP Tape) Tape Begin and Tape End S Cassette (ME Tape) Tape Begin and Tape End

Post Name	Tape Limit (Refer the figure)						Adjustment	
	A	B	C	D	E	F		
S5 Post	○	○	○	X	X	X	S5 Post	
S4 Tension Post	X	○	○	X	X	X	Tension Post Height	
S1 Post	○	X	X	X	X	X	(Envelope Adjustment)	
T1 Post	○	○	○	X	X	X		
T3 Post	○	○	○	X	X	X	T3 Post Height	
T4 Post	X	○	○	X	X	X	T4 Post Height	

○ means acceptable. X means not acceptable.

1. Place the unit into FF and REW mode, and confirm the each post limit is in the specification as shown in the upper table.
2. This adjustment must be done after "Envelope Waveform Adjustment".
3. If it is out of specification, adjust each item again.
4. This adjustment should be done alternately with PLAY Limit Adjustment.
5. If adjust T3 post, confirm "Loading Tape Pass Limit Confirmation".
6. Confirm the tape pass limit for both M cassette and S cassette.



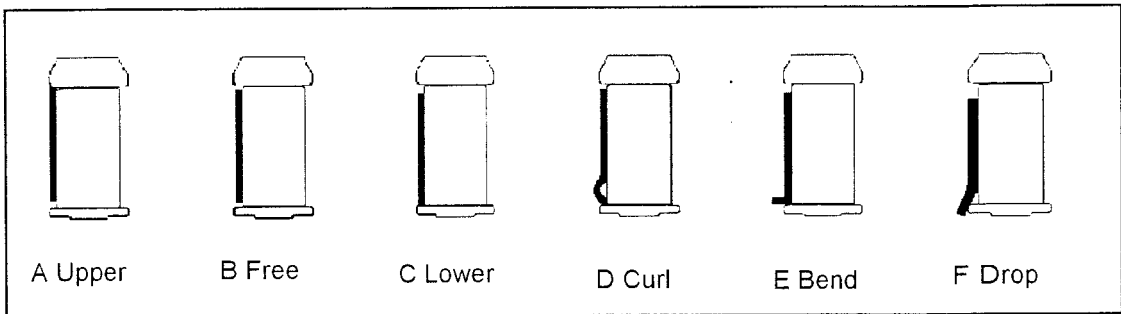
5-34. Loading Tape Pass Limit Confirmation

Specification	Confirm the T3 post limitation is as shown in the table.
Mode	LOADING / UNLOADING
Tool	VFK1151(Box Driver 2.5mm)
Tape	M Cassette (MP Tape) Tape Begin and Tape End S Cassette (ME Tape) Tape Begin and Tape End

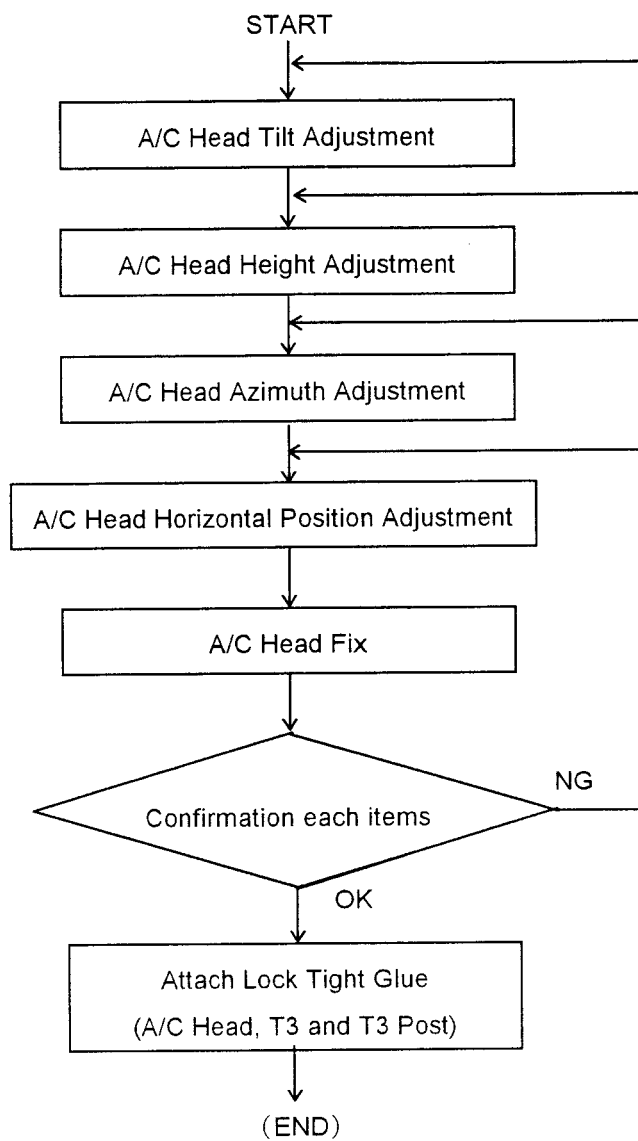
Post Name	Tape Limit (Refer the figure)						Adjustment	
	A	B	C	D	E	F		
T3 Post	○	○	○	X	X	X	T3 Post Height	

○ means acceptable. X means not acceptable.

1. Place unit into Loading condition, then confirm that the tape damage occurred or not at lower limit of T3 post and adjust the T3 post so that the post limit is within specification as shown in the upper table.
2. When confirm that the tape pass limit on the Loading condition as above item, practice alternately with "PLAY Tape Pass Limit Confirmation " and " REV Tape Pass Limit Confirmation " procedure.
3. If the T3 post is became too much lower limit at the timing of rising on Playback mode, down the height of T3 post a little and practice again the " PLAY Tape Pass Limit Confirmation ", " REV Tape Pass Limit Confirmation " and " A/C Head Tilt Adjustment " procedure.
4. Confirm the tape pass limit for both M cassette and S cassette.



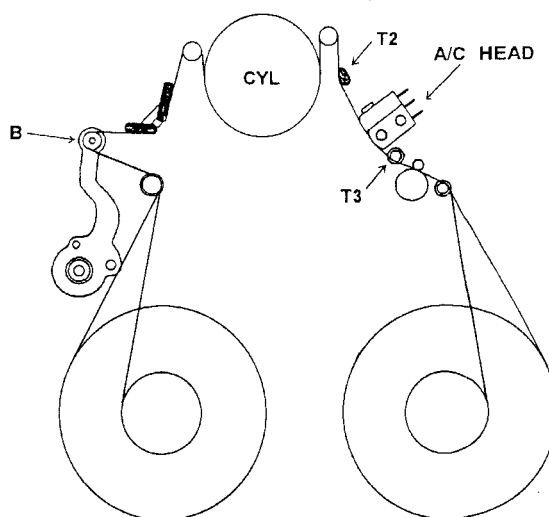
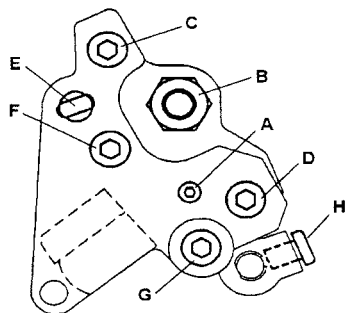
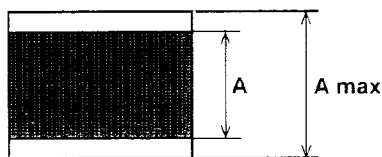
5-35. A/C Head Confirmation Procedures



5-36. A/C Head Tilt Confirmation

Specification	CUE Output : $A/A_{max} \geq 0.9$	
Mode	PLAY	
Equipment	Oscilloscope	
Adjustment	A/C head Screw A, G	
Tool	VFK1178 (Hex Screw 0.89 mm) for Screw A VFK1148 (Hex Screw 1.5 mm) for Screw G	
Tape	NTSC: VFM3580KM (Alignment Tape No.1 14 min.~22 min.) PAL: VFM3680KM (Alignment Tape No.1 14 min.~22 min.)	
	VTR1	VTR2
Test Point	TP40701 (Analog 1)	TP45701 (Analog 2)

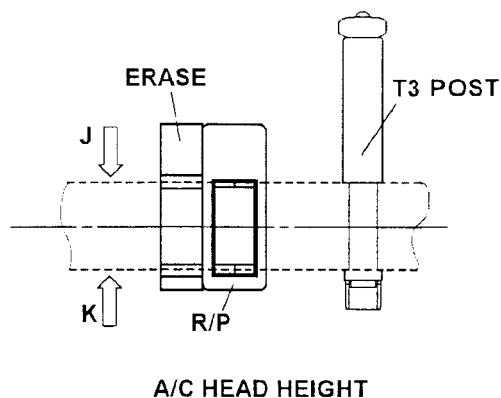
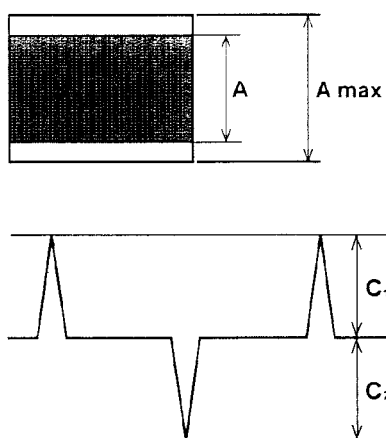
1. Playback the Alignment tape CUE 6 KHz part.
2. Confirm the screw G and H are not loosen. Then Connect the scope to Test Point to observe the CUE output. Vibrate the tension arm to B direction, and confirm the output level variation is in the specification.
3. When complete the adjustment, final screw rotate direction must be tighten direction, and confirm the Screw A is not loosen.
4. When adjust the screw A, loosen screw G and adjust screw A, then tighten screw G.
5. The A/C Head Tilt adjustment effects the T3 post limitation, so adjust item "Play limitation confirmation" again.



5-37. A/C Head Height Confirmation

Specification	CUE Output : A = A max CTL Output : C1, C2 \geq 160(mV)		
Mode	PLAY		
Equipment	Oscilloscope		
Adjustment	A/C head Screw B, H		
Tool	VFK1150 (Box Driver 5.5 mm) for Screw B VFK1190 (L type Hex Screw 1.5 mm) for Screw H		
Tape	NTSC: VFM3580KM (Alignment Tape No.1 14 min. ~ 22 min.) PAL: VFM3680KM (Alignment Tape No.1 14 min. ~ 22 min.)		
Test Point		VTR1	VTR2
	CUE	TP40701	
	CTL	P.C.Board	Schematic
		TP2705 (Digital 1)	TP35705 (Digital 1)
			TP33005 ((Digital 2)

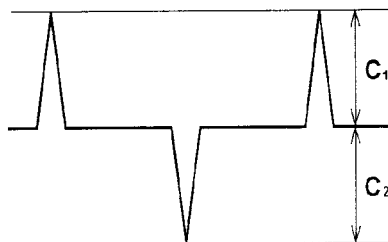
1. Playback the Alignment tape CUE 6 KHz part.
2. Connect the scope to Test Point on Analog 1 or 2 board and connect the scope to Test Point on Digital 1 or 2 board.
3. Confirm the CUE and CTL output level is not increased even the tape is moved j and k arrow direction.
4. When A/C Head Height is changed, the A/C Head Azimuth is changed also, so adjust and confirm alternately A/C Head Azimuth and A/C Head height.
5. The A/C Head tilt is changed by tightening the screw H, so the confirmation of specification must be done after tightening the screw H.



5-38. A/C Head Self Recording Level Confirmation

Specification	CTL Output Level PLAY : C1, C2 \geq 160mV REV (-1 x) : C1, C2 \geq 120mV		
Mode	PLAY REV (-1x)		
Equipment	Oscilloscope		
Tape	Work Tape for Rec and Play		
Test Point	VTR1 (Digital 1)		VTR2 (Digital 2)
	P.C.Board	Schematic	TP33005
	TP2705	TP35705	

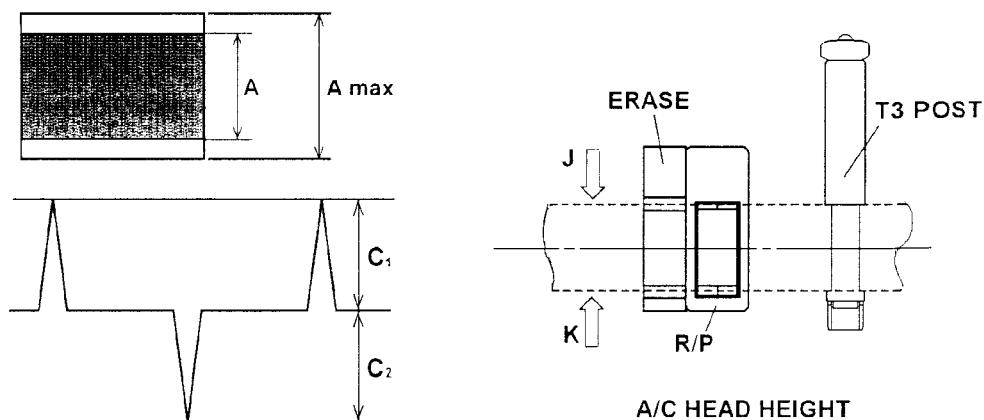
1. Record and Playback by a work tape.
2. Connect the scope to Test Point and confirm the CTL level is in the specification.
3. This confirmation should be done after the screws are fixed.
4. If it is not in the specification adjust "A/C Head Height" again.



5-39. A/C Head Azimuth Confirmation

Specification	CUE Output : A = Amax CTL Output : C1, C2 ≥ 160 (mV)			
Mode	PLAY			
Equipment	Oscilloscope			
Adjustment	A/C Head Screw F			
Tool	VFK1148 (Hex Screw 1.5mm)			
Tape	NTSC: VFM3580KM (Alignment Tape No.1 14 min.~22 min.) PAL: VFM3680KM (Alignment Tape No.1 14 min.~22 min.)			
Test Point		VTR1		VTR2
	CUE	TP40701		TP45701
	CTL	P.C.Board	Schematic	TP33005 ((Digital 2))
		TP2705 (Digital 1)	TP35705 (Digital 1)	

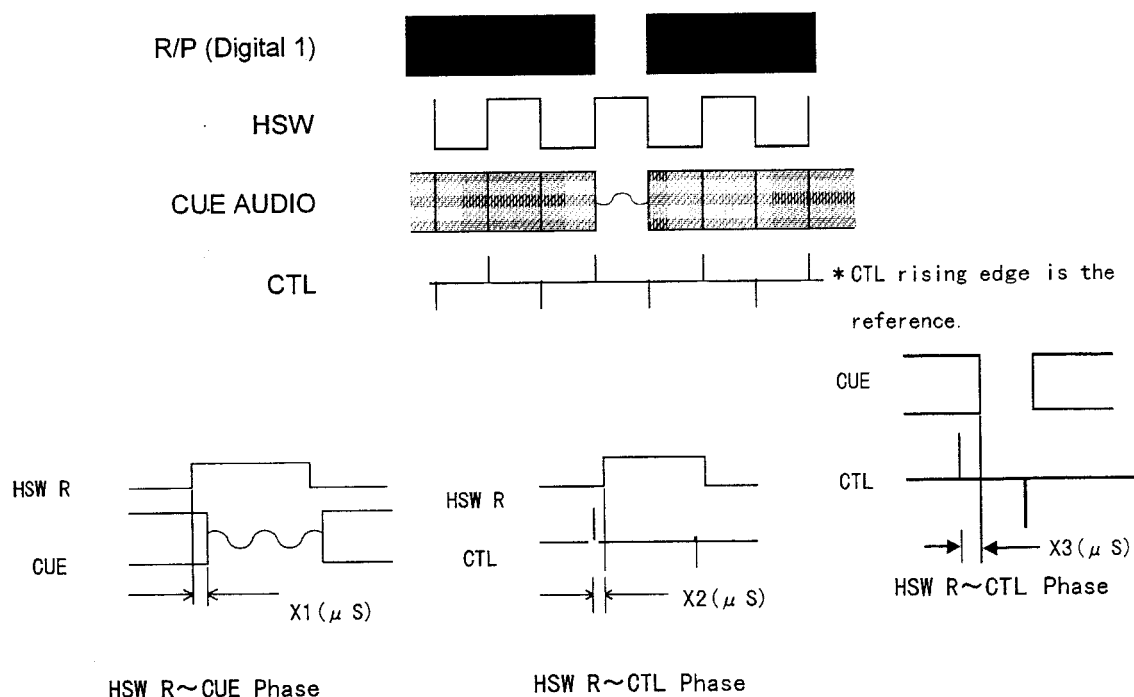
1. Playback the Alignment tape CUE 6 KHz part.
2. Connect the scope to Test Point on board and confirm the CUE output level is not increased even the tape is moved to j and k arrow direction.
3. If the output level is increased, adjust "Tape Pass Adjustment procedures" again.



5-40. A/C Head Horizontal Position Adjustment

Specification	As shown in the below figure. -250 μ S \leq X1, X2, X3 \leq 250 μ S		
Mode	ATF control, PLAY mode		
Equipment	Oscilloscope		
Adjustment	A/C Head each screws		
Tool	VFK0357(Eccentric driver), Hex driver		
Tape	NTSC: VFM3582KM (X Value Master Tape) PAL: VFM3682KM (X Value Master Tape)		
Test Point		VTR1	VTR2
	CUE	TP40701 (Analog 1)	TP45701 (Analog 2)
	R/P ENV	TP5001 (Digital 1)	TP5001 (Digital 2)
	HSW R/P	TP6001 (Digital 1)	TP6001 (Digital 2)
	CTL	P.C.Board TP2705 (Digital 1)	Schematic TP35705 (Digital 1) TP33005 ((Digital 2)

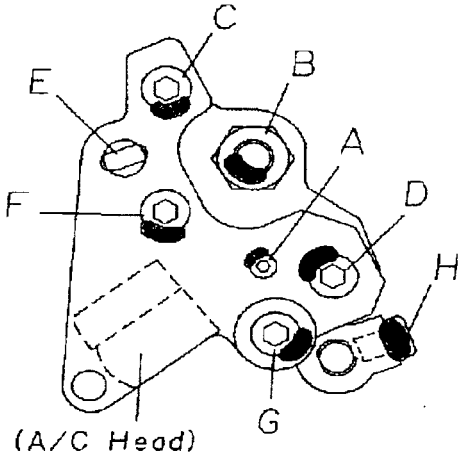
1. Adjust A/C Head Azimuth so that the CTL and Lack part of CUE is match in the phase.
2. Confirm the R/P envelope lack track, and select the HSW correspond with it. (The lack track is corresponded HSW High with L ch.)
3. Adjust CUE phase (A/C Head Horizontal Position) so that the selected HSW is match in the phase with the Lack part of CUE.
4. At this time, adjust the phase simultaneously with Azimuth so that the CTL and CUE phase is kept matching in the phase.
5. Confirm the selected HSW, CUE and CTL are match in phase.



5-41. A/C Head Screw Lock Tight Grew

	Screw A	Other Screw
Lock Tight Grew Quantity	1/3 of the screw	1/3 of the screw

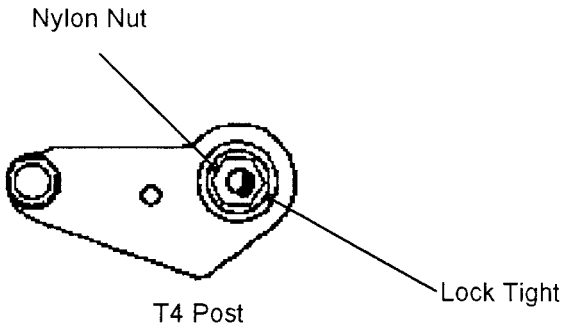
- 1. Fix the screws by Lock Tight Grew after adjustment.
- 2. Before adjustment, melt the grew.



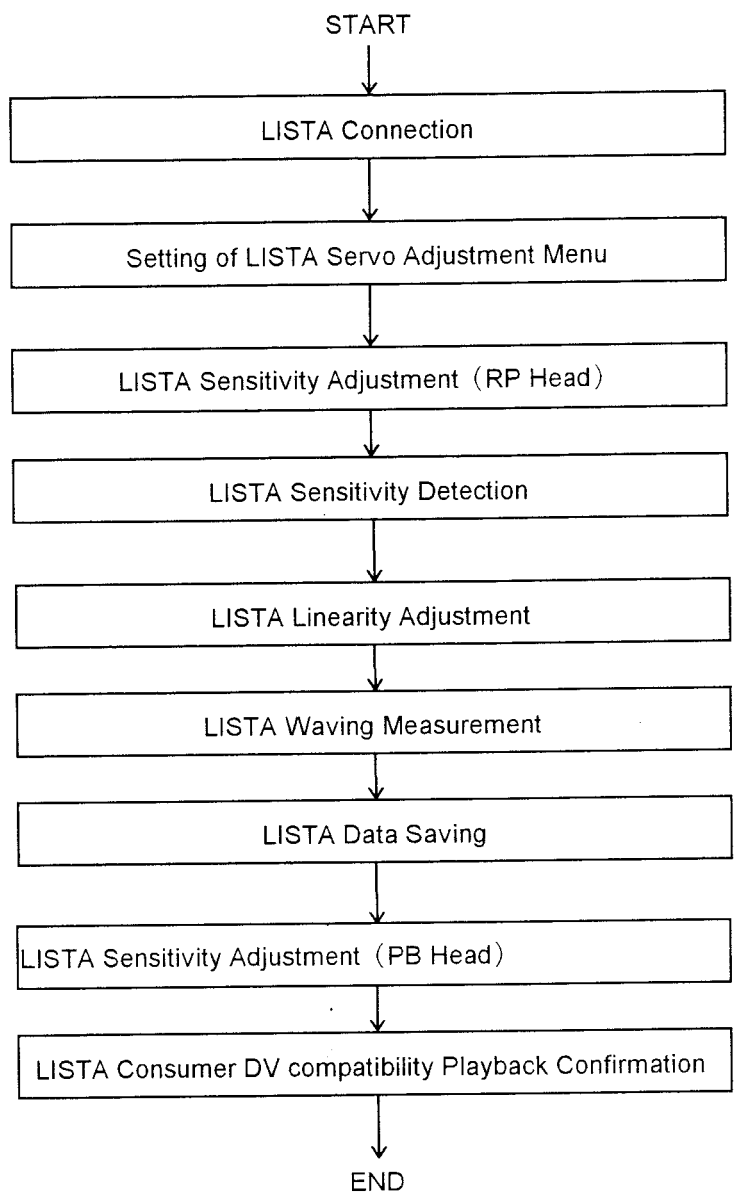
5-42. T3 Post, T4 Post Lock Tight Grew

	T3 Post	T4 Post
Lock Tight Grew quantity	1/4 of the screw	1/4 of the screw

- 1. After adjustment, attach the lock tight grew at the nylon nut.
- 2. Before adjustment, melt the grew.



5-43. LISTA Adjustment Procedures

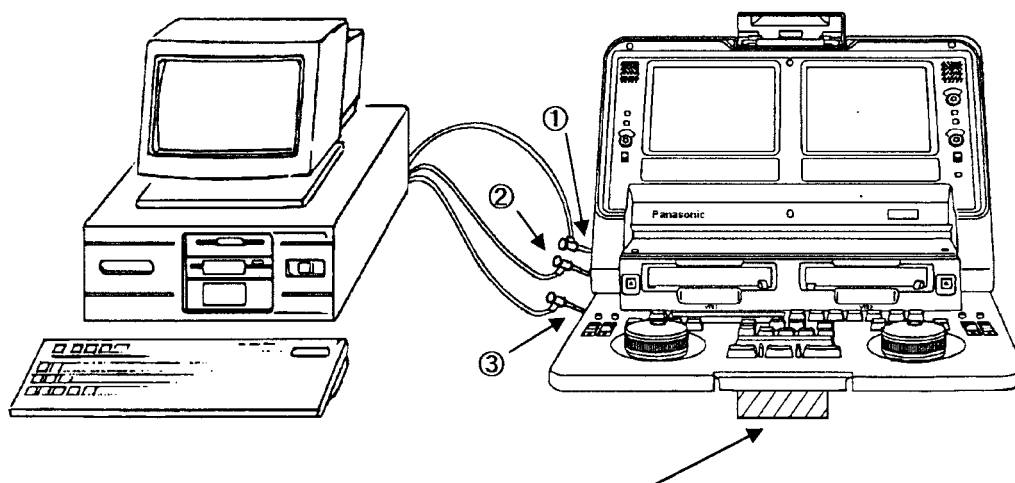


5-44. LISTA Connection

Equipment	LISTA SET			
Tape	NTSC: VFM3581KM (Alignment tape No.2 LISTA master) PAL: VFM3681KM (Alignment tape No.2 LISTA master)			
Test Point		VTR1 (Digital 1)		VTR2 (Digital 2)
	HSW R/P	TP6001		TP6001
	HSW PB	TP6002		TP6002
		P.C.BOARD	SCHEMATIC	
	ATF Error	TP2706	TP35706	TP33006
	GND	TG2708	TG35708	TG3008

1. Connect the probe for LISTA A/D board to the test points as shown in the table above.
Note: HSW is connected to TP6002 which is used only for 5-51 "LISTA sensitivity adjustment (PB Head)", and HSW is connected to TP6001 for all other adjustment . .
2. Prepare the LISTA menu, and select AJ-D750 (item 1) on the menu.
3. Select the number of the master tape, if the master tape data is not registered, input the master tape data into PC manually.
4. LISTA menu is started.

※LISTA cable is connected to A/D converter P.C.Board, which is installed to the Computer.



Please set the stand (For example : DVCPR0 cassettes with cassette case.) for lift up at front side of AJ-LT75.

Connection of LISTA cable to Digital 1 P.C.Board.

- ① to TP2706 (ATF Error)
- ② to TP6001 (HSW : R/P)
- ③ to TP2708 (GND)

5-45. Setting of LISTA Servo Adjustment Menu

1. Press the ENTRY + EDIT button so that the USER menu is displayed on the LCD display and then press the ENTRY + REW + FF button of the VTR 2 side and REW + FF button of VTR1 side simultaneously so that the SERVICE MENU is displayed.
2. Select the SERVO ADJUSTMENT menu by Jog Dial.
3. Press the IN button so that the SERVO ADJUSTMENT menu is opened as follows.
4. Rotate the Jog Dial and select the required mode. (refer to the each adjustment procedure for more detail)
5. When adjust each items, rotate the Jog Dial with pressing the ENTRY button.
6. After complete the adjustment, press OUT button to save the data and exit from SERVICE MENU.

SERVICE - MENU : SERVO

- * A01 T OFFSET
- A02 S OFFSET-
- A03 T TORQUE -
- A04 S TORQUE -
- A05 TENSION OFST -
- A06 PG RISE CORS
FINE -
- A07 PG FALL CORS -
FINE
- A08 PB LINEAR P -
- A09 RP LINEAR P -
- A10 PB LINEAR -
- A11 MOTOR CHECK
- A12 PB GAIN P
- A13 RP GAIN P
- A14 RP GAIN
- A15 DVCAM ENA

END

5-46. LISTA Sensitivity Adjustment (R/P Head)

Specification	Sensitivity 150 ± 15 (mV/ μ m)		
Mode	Servo Adjustment Menu:「A13 RP GAIN P」		
Equipment	LISTA SET		
Tape	NTSC: VFM3581KM (Alignment tape No.2 LISTA master) PAL: VFM3681KM (Alignment tape No.2 LISTA master)		
Test Point		VTR1 (Digital 1)	VTR2 (Digital 2)
	HSW R/P	TP6001	TP6001
		P.C.Board	Schematic
	ATF Error	TP2706	TP35706
	GND	TG2708	TG35708
Adjustment	R P GAIN P (Select by Jog Dial)		

1. Display the Servo menu, and select "A13 RP GAIN P ".
2. Playback the LISTA Master Tape.
3. Select the LISTA Menu " (6) ATF Error Signal Monitor " and display the sensitivity data in real time.
4. When the sensitivity data is displayed, adjust ATF Gain so that the sensitivity value at right-up on the monitor.
5. After Adjustment, press ESC key and exit to the menu mode.

※ ATF Gain is adjusted by rotating the JOG dial.

5-47. LISTA Sensitivity Detection

Specification	Sensitivity $150 \pm 15(\text{mV}/\mu\text{m})$			
Mode	Servo Adjustment Menu : "A13 RP GAIN P"			
Equipment	LISTA Set			
Tape	NTSC: VFM3581KM (Alignment tape No.2 LISTA master) PAL: VFM3681KM (Alignment tape No.2 LISTA master)			
Test Point		VTR1 (Digital 1)		VTR2 (Digital 2)
	HSW R/P	TP6001		TP6001
		P.C.Board	Schematic	
	ATF Error	TP2706	TP35706	TP33006
	GND	TG2708	TG35708	TG3008
Adjustment	-----			

1. Display the Servo menu and select [A13 RP GAIN P].
2. Playback the LISTA Master Tape
 - Item 1 and 2 can be omitted after "LISTA Sensitivity Adjustment (R/P)"
3. Select the [(1) Sensitivity Measurement] and start Sensitivity Detection.
4. When the sensitivity is displayed, confirm the sensitivity is in the specification.
5. If it is out of specification, repeat the "LISTA Sensitivity Adjustment (R/P)".

Sensitivity

Sens.1

Sens.2


$\leq 154.28 (\text{mV}/\mu\text{m})$

$= 178.76 (\text{mV}/\mu\text{m})$

$= 149.79 (\text{mV}/\mu\text{m})$

Sensitivity Detection Display

<<<Hit any key>>>

Confirm


<<Sensitivity Measurement Finish>>

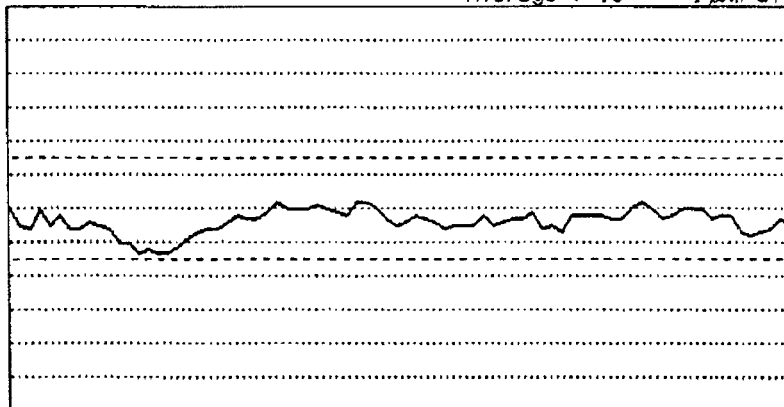
5-48. LISTA Linearity Adjustment

Specification	Linearity: Less than 3 μ m		
Mode	Servo Adjustment Menu : "A09 RP LIN P"		
Equipment	LISTA Set		
Tool	VFK1149(Post driver)		
Tape	NTSC: VFM3581KM (Alignment tape No.2 LISTA master) PAL: VFM3681KM (Alignment tape No.2 LISTA master)		
Test Point		VTR1 (Digital 1)	VTR2 (Digital 2)
	HSW R/P	TP6001	TP6001
		P.C.Board	Schematic
	ATF Error	TP2706	TP35706
	GND	TG2708	TG35708
Adjustment	S1, T1 Post Height		

1. Display the Servo menu and select the "A09 RP LIN P ".
2. Playback the LISTA master tape.
3. Select the (2) Linearity Measurement on the LISTA menu, and display the linearity.
4. When linearity is displayed, adjust S1 and T1 post so that the linearity is in the specification.

- Lower part of the monitor shows the lead.
- Adjust the waveform is in the red dot lines.
- Linearity is displayed in not Play mode, so adjust it while item envelope waveform confirmation.

5. Average : 16 1 μ m/div so that the envelope is



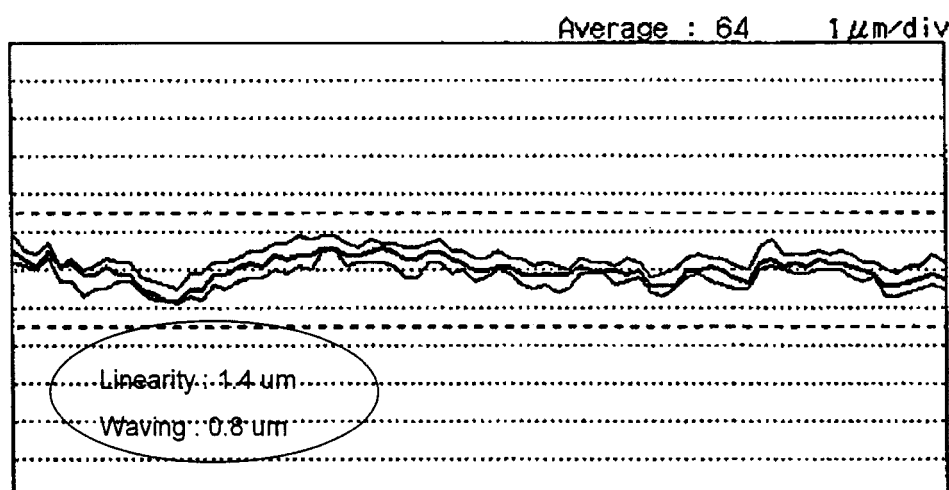
Adjust linearity in this area.

Centering → [BS]
 Peak Hold on/off → [SPACE]
 Up/Down → [↑]/[↓]
 Average(64) → [RETURN]
 Exit → [ESC]

5-49. LISTA Waving Measurement

Specification	Waving : Less than 1.5 μ m			
Mode	Servo Adjustment Menu: "A09 RP LIN P"			
Equipment	LISTA Set			
Tool	VFK1149(Post driver)			
Tape	NTSC: VFM3581KM (Alignment tape No.2 LISTA master) PAL: VFM3681KM (Alignment tape No.2 LISTA master)			
Test Point		VTR1 (Digital 1)		VTR2 (Digital 2)
	HSW R/P	TP6001		TP6001
		P.C.Board	Schematic	
	ATF Error	TP2706	TP35706	TP33006
	GND	TG2708	TG35708	TG3008
Adjustment	S1, T1 Post Height			

1. Display the Servo Adjustment Menu and select " A09 RP LIN P ".
2. Playback the LISTA master tape.
3. Select " (2) Linearity Measurement " of LISTA menu, and display the linearity.
Items 1 through 3 can be omitted just after item 5-26 " Linearity Adjustment".
4. When linearity is displayed, press SPACE and Hold the Peak (Peak_Hold) during 30 second.
5. After the Peak_Hold, display the Waving by "SHIFT + } " and confirm the waving is in the specification.
Confirm the waving is same value from entrance to exit of linearity.
If the waving is out of specification because of bad limit of entrance or exit, adjust S1 and T1 post height again.
6. After completion of adjustment, press ESC key and return to the menu display.



5-50. LISTA Data Saving

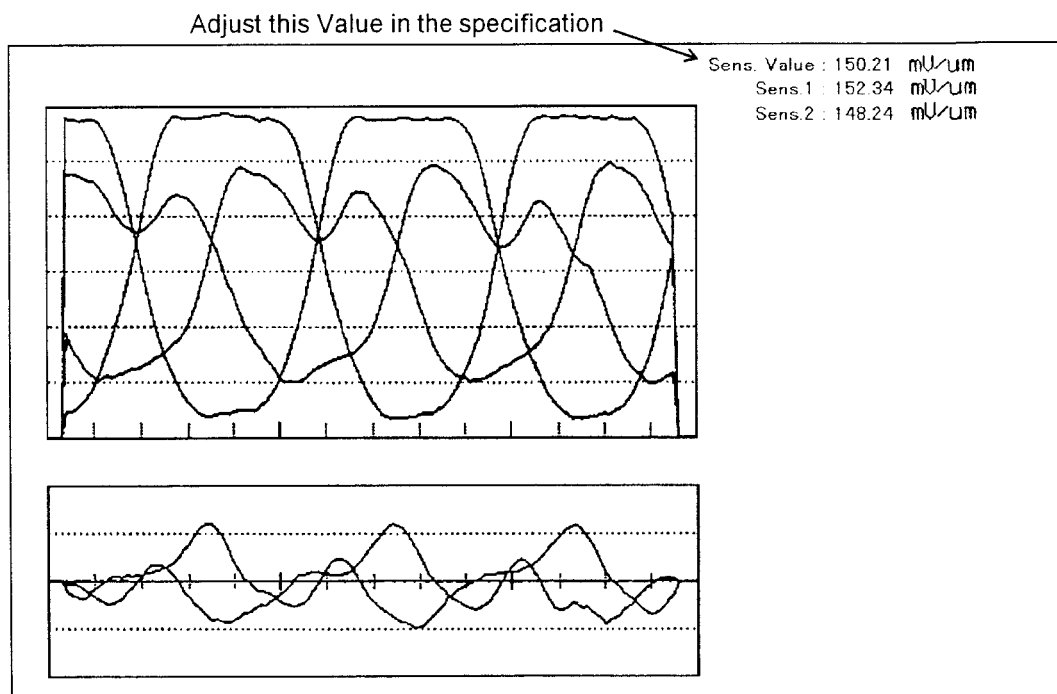
1. This item is done after item 5-49 “LISTA waving measurement”.
2. After set the data, press button so that the adjustment data will be saved.
3. Confirm the data is saved.

Note: Do not turn power off while adjusting.

5-51. LISTA Sensitivity Adjustment (PB Head)

Specification	Sensitivity $150 \pm 15(\text{mV}/\mu\text{m})$			
Mode	Servo Adjustment Menu : "A12 PB GAIN P"			
Equipment	LISTA Set			
Tape	NTSC: VFM3581KM (Alignment tape No.2 LISTA master) PAL: VFM3681KM (Alignment tape No.2 LISTA master)			
Test Point		VTR1 (Digital 1)		VTR2 (Digital 2)
	HSW PB	TP6002		TP6002
	ATF Error	P.C.Board	Schematic	TP33006
		TP2706	TP35706	
	GND	TG2708	TG35708	TG3008
Adjustment	PB GAIN P (Select by Jog Dial)			

1. Display the Servo menu, and select " A12 PB Gain P "
2. Playback the LISTA Master Tape (VFM3581KM).
3. Select the LISTA Menu " (6) ATF Error Signal Monitor " and display the sensitivity data in real time.
4. When the sensitivity data is displayed, adjust ATF Gain so that the sensitivity value at the upper-left on the monitor is in the specification.
5. ATF Gain is adjusted by rotating the JOG dial while pressing the JOG/SHTL key.
6. After Adjustment, press ESC key and exit to the menu mode.



5-52. LISTA Consumer DV Compatibility Playback Confirmation

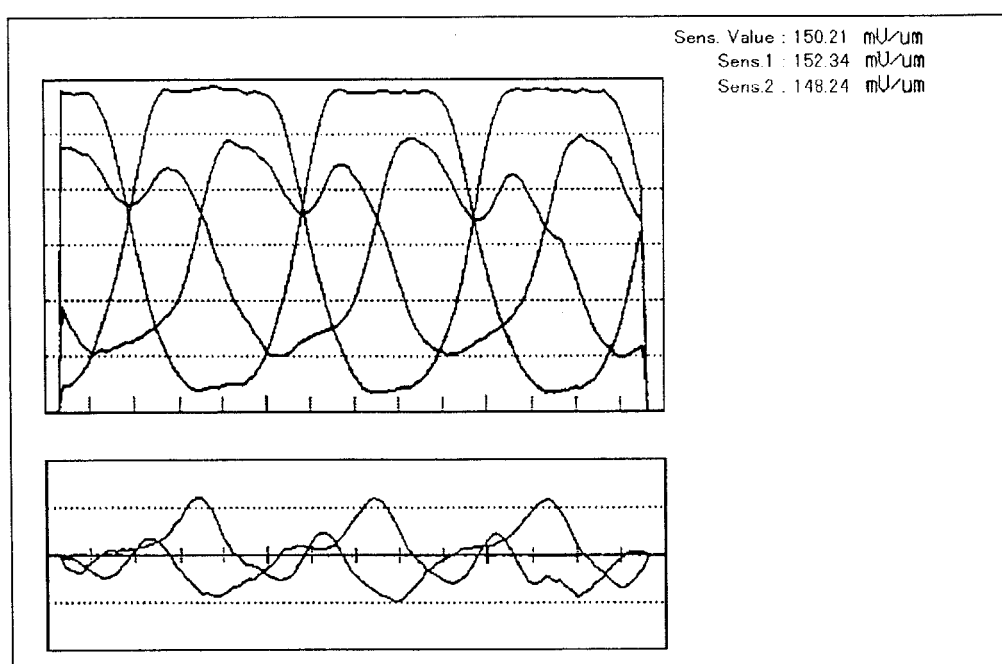
Specification	Sensitivity : $130 \pm 30 (\text{mV} / \mu \text{m})$			
Mode	Servo Adjustment Menu: "A14 RP GAIN"			
Equipment	LISTA Set			
Tape	VFM3000EDS (LISTA Master Tape for consumer DV)			
Test Point		VTR1 (Digital 1)		VTR2 (Digital 2)
	HSW PB	TP6002		TP6002
	ATF Error	P.C.Board	Schematic	TP33006
		TP2706	TP35706	
	GND	TG2708	TG35708	TG3008
Adjustment	R P GAIN (Select by Jog Dial)			

1. Select "A14 RP GAIN" of the Servo Adjustment menu.
2. Select " (4) LISTA Alignment Tape " of LISTA menu and Select the "NTSC or PAL" number of DV tape number which is used for adjustment.

NOTE: The Alignment tape (VFM3000EDS) is common use NTSC and PAL.

Please be careful select the "NTSC" or "PAL" on the above menu, which is follow the VTR.

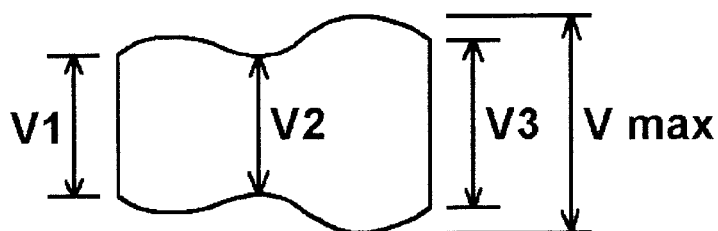
3. Playback the consumer DV LISTA master Tape.
4. Select the " (6) ATF Error Signal Monitor " and display the sensitivity data.
5. When the sensitivity data is displayed, adjust ATF Gain so that the sensitivity value at the upper-left on the monitor is in the specification.
6. ATF Gain is adjusted by rotating the JogDial while pressing the JOG/SHTL key.
7. After completion of adjustment, press ESC key to return menu and select (1) sensitivity Measurement.
8. Confirm the sensitivity value is in the specification.



5-53. Playback Envelope Confirmation

Specification	$V1/V_{max}$ 、 $V2/V_{max}$ 、 $V3/V_{max} \geq 0.8$		
Mode	PLAY		
Equipment	Oscilloscope		
Tape	NTSC: VFM3580KM (Alignment Tape No.1 Color Bar Portion) PAL: VFM3680KM(Alignment Tape No.1 Color Bar Portion)		
Test Point		VTR1	VTR2
	PB Envelope	TP5101 (Digital 1)	TP5101 (Digital 2)
	TRIG for PB	TP6002 (Digital 1)	TP6002 (Digital 2)

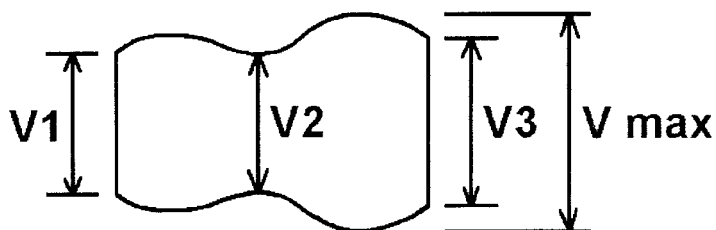
1. After the LISTA adjustment, Playback the color bar portion of the alignment tape.
2. Confirm the Envelope is in the specification.
3. If it is not in the specification, adjust the envelope and adjust LISTA adjustment.



5-54. Self Recording Playback Envelope Confirmation

Specification	$V1/V_{max}$ 、 $V2/V_{max}$ 、 $V3/V_{max} \geq 0.8$		
Mode	PLAY		
Equipment	Oscilloscope		
Tape	Work tape for self recording and playback		
Test Point		VTR1	VTR2
	RP Envelope	TP5001 (Digital 1)	TP5001 (Digital 2)
	TRIG for R/P	TP6001 (Digital 1)	TP6001 (Digital 2)
	PB Envelope	TP5101 (Digital 1)	TP5101 (Digital 2)
	TRIG for PB	TP6002 (Digital 1)	TP6002 (Digital 2)

1. After the LISTA adjustment, recording color bar and playback the recorded portion.
2. Confirm the Envelope is in the specification.
3. If it is not in the specification, adjust the envelope and adjust LISTA adjustment.



6. MAJOR MECHANISM PARTS REPLACEMENT AND ADJUSTMENT PROCEDURE

GENERAL

When mechanical parts are replaced, pay attention to the following notes.

1. Always turn power off before replacing any parts.
2. If any adjustment is necessary after the parts is replaced, perform the adjustment after replacement.
3. Use proper hard tools of fixtures.
4. Be sure to clean the parts after replacement, Also when the mechanical parts are replaced, follow the replacement procedure.

6-1. Cylinder Unit Replacement

(Removal)

1. Remove the Top Case Unit (Refer to item [2-1. Removal of Top Case Unit]).
2. Unscrew the 2 screws (A) and remove the T1 GUIDE as shown in Figure 6-1-6.
3. Disconnect the connector P5002 and P5003 for each VTR on the RF AMP P.C.Board. And remove the screw which is fixed with the flexible cable as shown in Figure 6-1-1.

Note: Be careful when remove the flexible cable from the connector for flexible cable. Please refer to how remove the connector as shown in Figure 6-1-4.

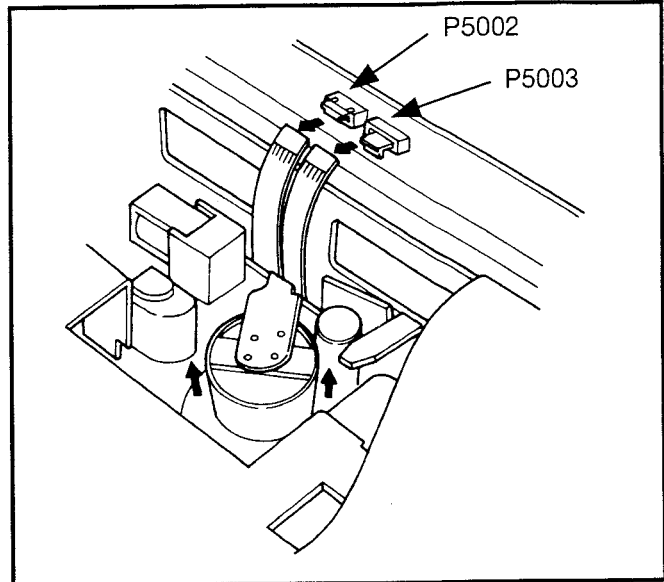


Fig. 6-1-1

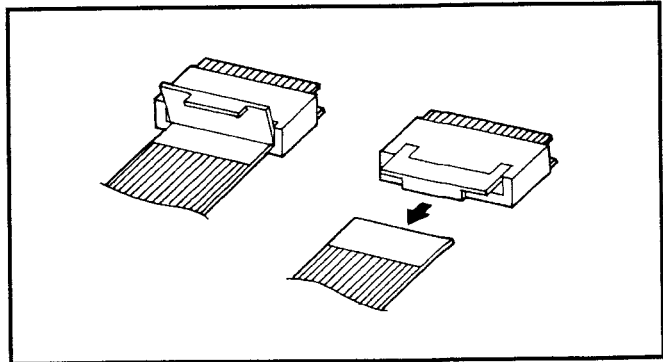


Fig. 6-1-4

4. Remove the Bottom Case Unit (Refer to item [2-3. Removal of Bottom Panel]).
5. Open the P.C.Board Unit (Refer to item [2-4. Open the P.C.Board Unit])

6. Disconnect the connector (A) : P61901 and (B) : P61601 on the AV STSCON P.C.Board as shown in figure 6-1-5.
7. Unscrew 4 screws (C) for VTR 1 and 4 screws (D) for VTR 2, then remove the shield plate as shown in figure 6-1-5.
8. Disconnect the connector (A) : P2033 on the Servo P.C.Board.

Note: Never touch the cylinder by finger directly, when pull out the Cylinder Unit.

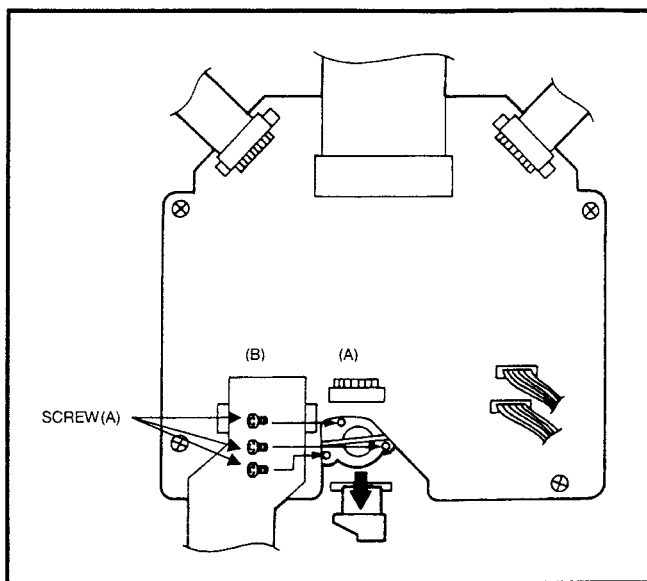


Fig.6-1-2

9. Remove the 3 screws (A), which have spring from the Cylinder Unit, then remove the Cylinder Unit without touching any mechanical parts as shown in figure 6-1-2.

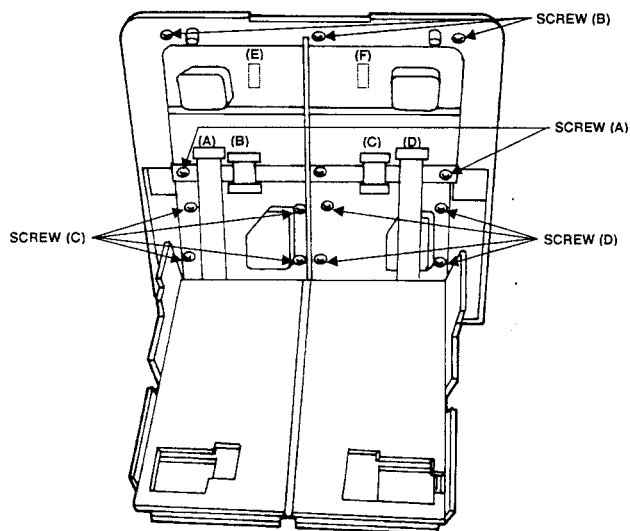


Fig. 6-1-5

(Installation)

1. Install the new Cylinder Unit on the previous steps in reverse order.
2. After installation of T1 Guide, T1 Guide position adjustment should be performed as follows.

Note: When install the Cylinder Unit, the pin on Mech chassis should be match to hole of Cylinder Unit as shown in Figure 6-1-3.

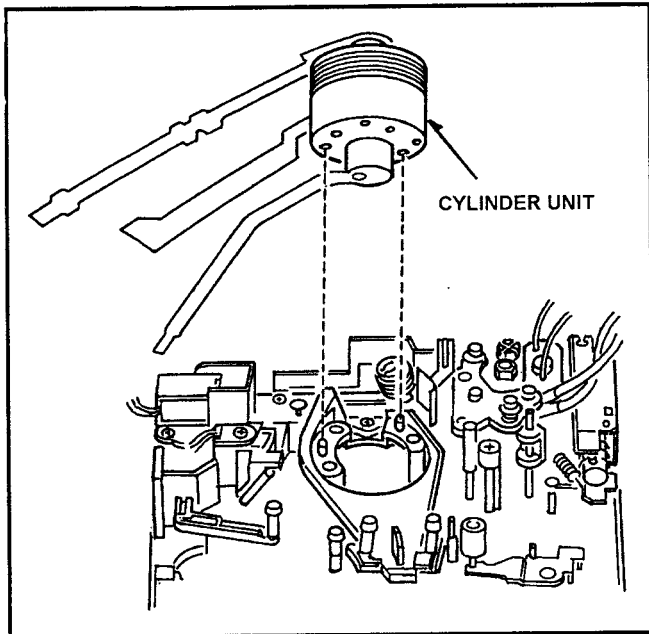


Fig. 6-1-3

[T1 Guide Position Adjustment]

1. Place the Loading completed position.

< How to making the Loading Condition >

1. Open the "Servo Adjust" menu in the "Service Menu".
2. Select the item "T TORQUE" and press the ENTER button for making the loading condition and turn power to off.
2. Observe the clearance (B) between T1 Guide and T1 post as shown in Figure. And make sure that it is within 0.2 to 0.5mm. (as shown in figure 6-1-6.)
3. If not, loosen the 2 screws (A) and adjust the position of T1 Guide by moving arrow direction (G ⇌ G) so that the clearance (B) is within specification. And tighten the 2 screws (A). (as shown in figure 6-1-6 and 6-1-7.)

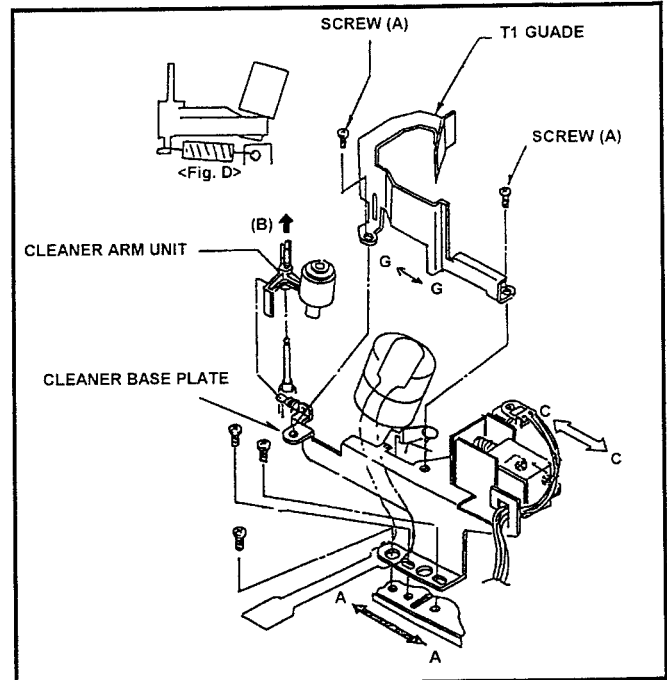


Fig. 6-1-6

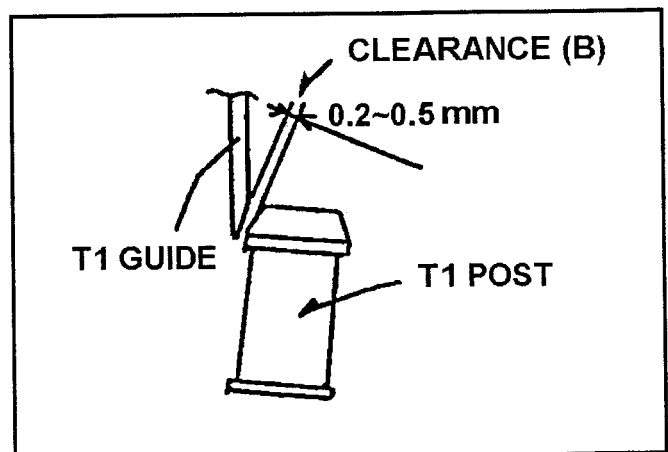


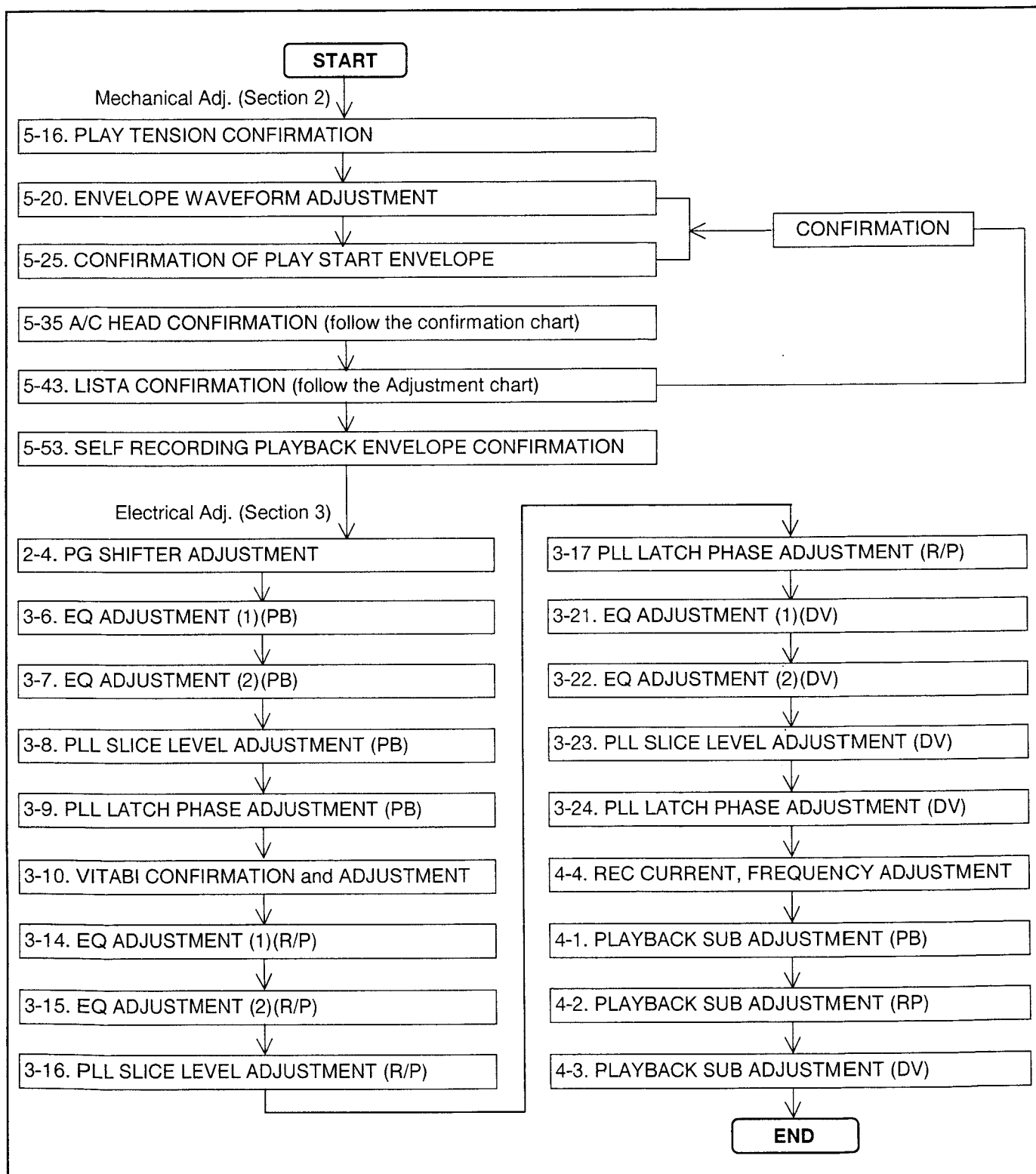
Fig. 6-1-7

6-1-1. Adjustment Flow Chart After Cylinder Unit Replacement

1. After change the Cylinder Unit, please perform the following steps.

ADJUSTMENT FLOWCHART AFTER DRUM UNIT & MECH CHASSIS REPLACEMENT

Note: Please confirm the condition of Linearity before Head replacement. The number indicated as below chart, which is indicated as item number on the Service manual.



6-2. A/C Head Replacement

6-2-1. Replacement

※ Tools required:

Nut Driver (5.5m/m)(VFK1150)

Hex Driver (VFK1148)

Hex Wrench (VFK1190)

(Removal)

1. Remove the Top Case Unit (Refer to item [2-1. Removal of Top Case Unit]).
2. Open the P.C.Board Unit and remove the Shield Plate.
3. Loosen the hex screw (B) and remove the Nut (C). Hang off the Head Height Adjustment Spring and then remove the A/C Head Unit as shown in Figure 6-2-3.

Point: Memorized height of Nut (C) before remove the Nut (C),

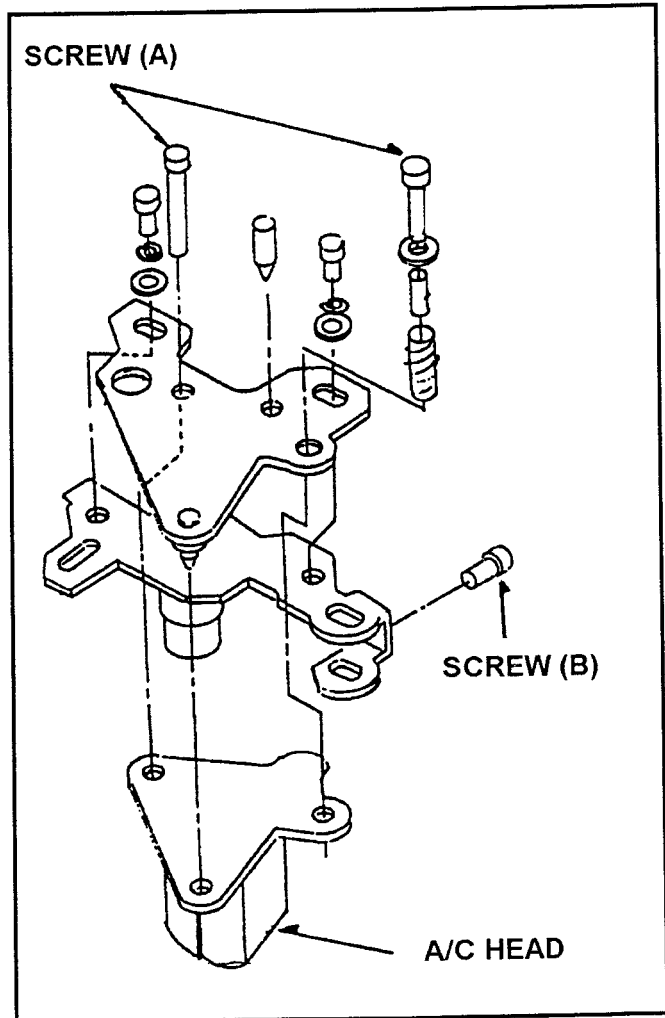


Fig. 6-2-1 Removal of A/C Head

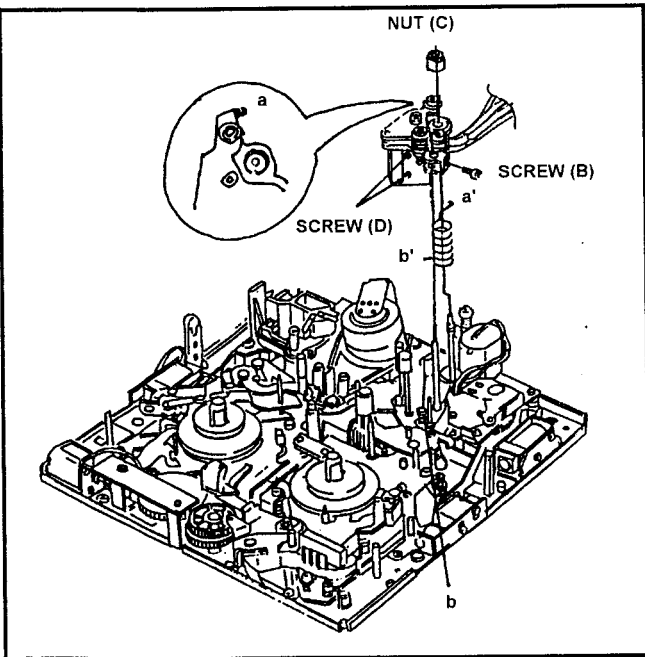


Fig. 6-2-3 Removal of A/C Head Unit

3. Remove the 2 screws (A) and disconnect the connector P5004 on the RF AMP and P30 on the Servo P.C.Board, then remove the A/C Head from the A/C Head Plate.

4. Remove the Shield Cover by removing 2 screws (D) as shown in Figure 6-2-3.
5. Unsolder the lead wires (When unsolder the lead wires, do not unsolder all at the same time).

(Installation)

1. Remove the Shield Case from the New A/C Head and solder the lead wires to New A/C Head (Refer to Figure 6-2-2).
2. Reinstall the shield case to A/C Head.
3. Install the A/C Head to A/C Head Plate by tight 2 screws (A), then set to parallel the gap between A/C Head and A/C Head Plate.
4. Install the A/C Head Unit.
5. Hang on the Head Height Adjustment Spring and tighten the Nut (C).
6. Clean the surface of the A/C Head.

Note: After installation, Mechanical and Electrical adjustments should be performed and the hex screw (B) is kept loose until finish the A/C Head Height Adjustment.

6-2-2. Adjustment Flowchart After A/C Head Adjustment

- After change the A/C Head, please perform the following steps.

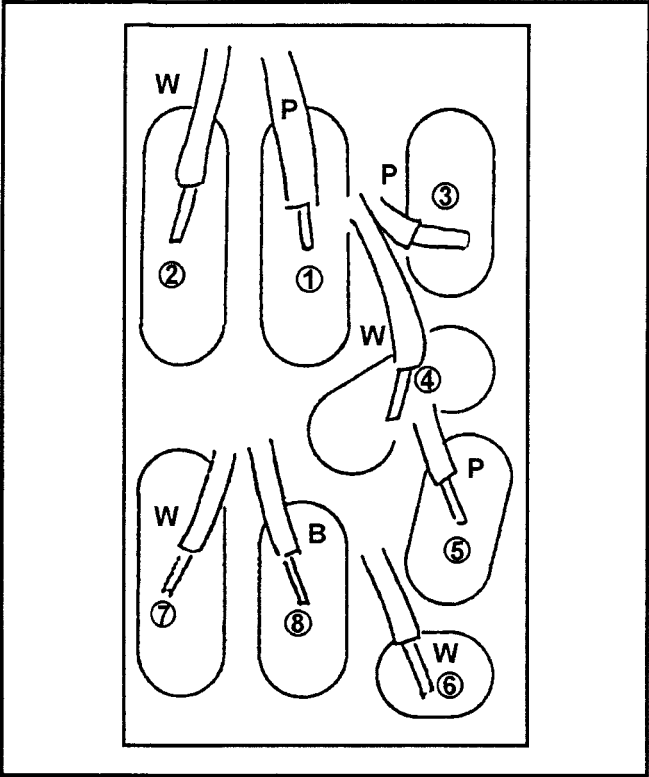
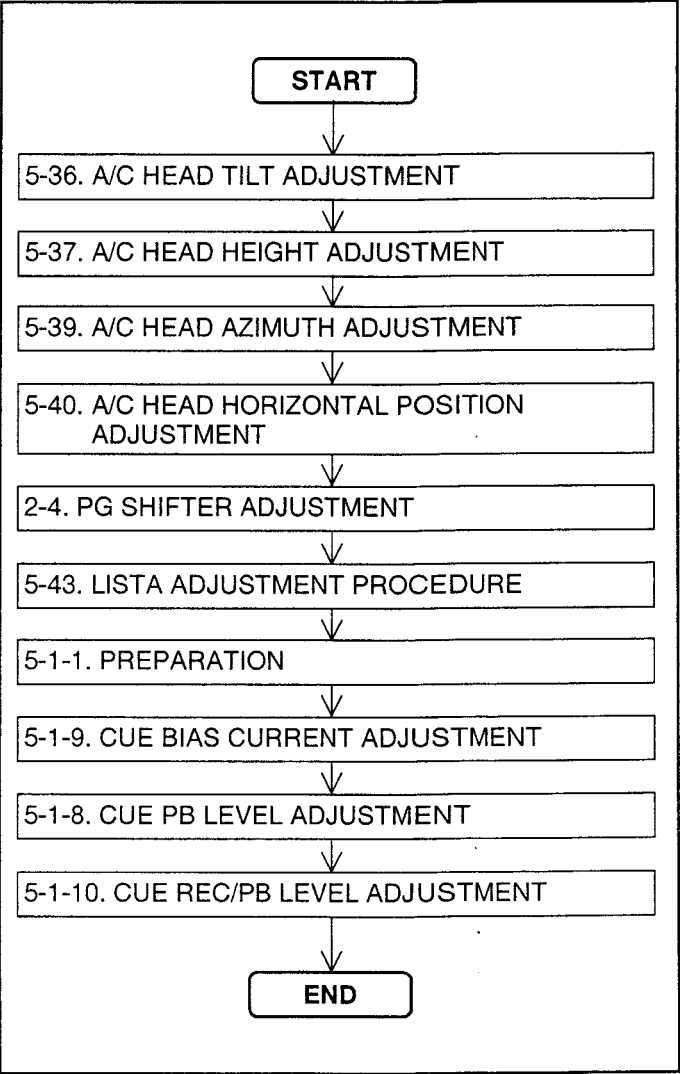


Fig. 6-2-2 Connection of A/C Head

A/C Head Side	Cable Color		Connector No.
1	PINK	YELLOW	P1
2	WHITE		
3	PINK	RED	
4	WHITE		
5	PINK	GREEN	
6	WHITE		P30
7	WHITE	YELLOW	
8	BLACK		



6-3. Supply and Take up Reel Rotor Unit Replacement

(Removal)

1. Remove the Top Case Unit (Refer to item [2-1. Removal of Top Case Unit]).
2. Remove the Front Loading Unit (Refer to item [2-7. Removal of Front Loading Unit]).
3. Remove the Bottom Case Unit (Refer to item [2-3. Removal of Bottom Case Unit]).
1. Open the P.C.Board Unit and remove the Shield Plate.
5. Disconnect the connector P34 and P35 on the Servo P.C.Board as shown in Figure 6-3-1.
6. Move the S1 post to loading direction by manual ejecting method until the screw (C) can removing position.
7. Confirm the supply and Take Up Brake are not release.
3. Press the iron core of M stopper solenoid to release the M stopper.
9. Remove the 4 screws (C), (D) and (E) as shown in Figure 6-3-1.
10. Remove the Supply and Take Up Reel Rotor Unit and Reel Outer Rail.

Note: Memorized the groove position of Reel Base, which inserted the pin of Drive Arm Unit.

(Installation)

1. Through in the Reel Outer Rail to New Supply and Take Up Reel Rotor Unit.
2. Hang on the Reel Rotor Unit to Reel Inner Rail and Install the Reel Rotor Unit then the pin of Drive Arm Unit should be matched with groove position of Reel Base as shown in Figure 6-3-3.
3. Install the 4 screws (C), (D) and (E).
4. Confirm that the Reel Rotor Unit moving smoothly on the Rail by hand.
5. Move the Reel Rotor Unit to front side by hand and then pull up the iron core of M stopper solenoid for operating M stopper.
6. Set the unloading condition by turn the Emergency shaft counter-clockwise.
7. Connect the Flexible Cable to Connector P34 and P35 on the Servo P.C.Board.
8. Adjust the Motor Torque Offset value (Refer to item 1-1 of section 3).
9. Confirm that the Tension value on playback mode (Refer to item 5-16).

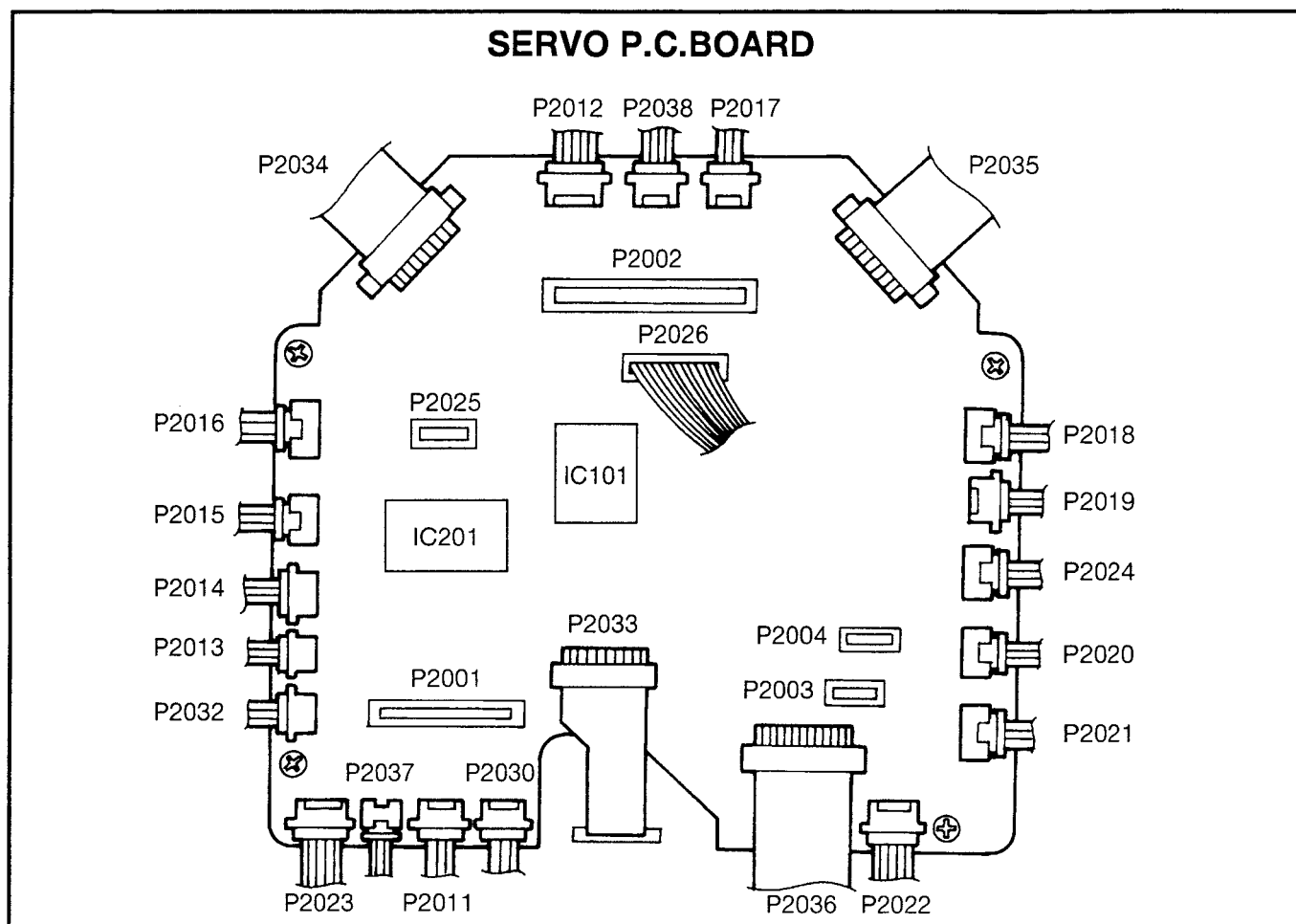


Fig. 6-3-1 Connection of Servo P.C.Board

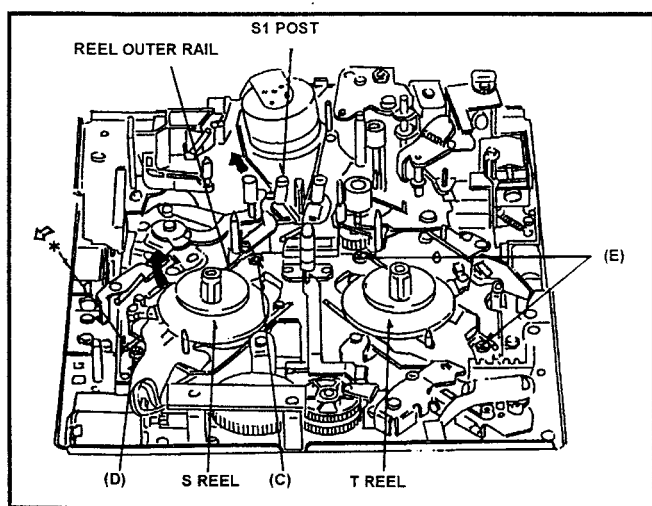


Fig. 6-3-2 Removal of S & T Reel Rotor Unit

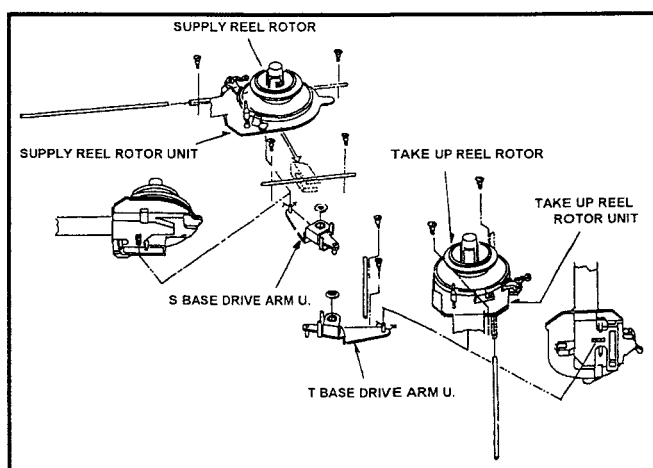


Fig. 6-3-3 Install of S & T Reel Rotor Unit

6-4. Loading Motor Unit Replacement

(Removal)

1. Remove the Top Case Unit.
2. Remove the Front Loading Unit.
3. Remove the Bottom Case Unit.
4. Open the P.C.Board Unit and remove the Shield Plate.
5. Disconnect the connector P21 on Servo P.C.Board as shown in Figure 6-3-1.
6. Remove the Pinch Solenoid Unit (Refer to item 6-9).
7. Remove the Pinch Solenoid Lever. (Refer to item 6-5).
8. Unscrew the screw (B), and remove the Emergency Shaft as shown in Figure 6-4-1.
9. Unscrew the 2 screws (C) and remove the Loading Motor Neutral Unit as shown in Figure 6-4-1.
10. Unscrew the 2 screws (D) and remove the Loading Motor Unit as shown in Figure 6-4-1.

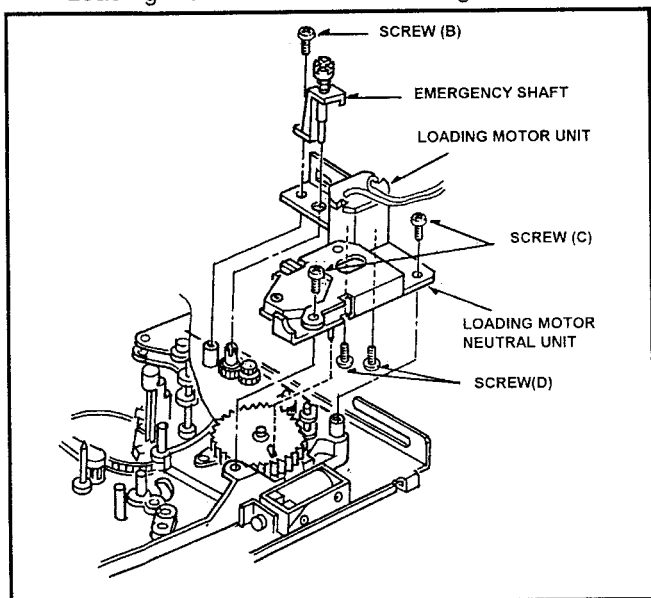


Fig. 6-4-1 Removal of Loading Motor Unit

(Installation)

1. Install the new Loading Motor Unit to Loading Motor Neutral Unit by tightening 2 screws (D).
2. Install the Loading Motor Neutral Unit by tightening the 2 screws (C), then be careful that the pin of Mode SW Unit should be matched to groove position of main Cam Gear.
3. Install the Emergency Shaft by tightening the screw (B).
4. Install the Pinch Solenoid Unit and after installation

it, Pinch Solenoid Position adjustment is required.
(Refer to item 5-3).

6-5. Pinch Arm Unit Replacement

(Removal)

1. Remove the Top Case Unit.
2. Remove the Front Loading Unit.
3. Remove the Bottom Case Unit.
4. Open the P.C.Board Unit and remove the Shield Plate.
5. Disconnect the connector P20 on the Servo P.C.Board as shown in Figure 6-3-1.
6. Remove the Pinch Solenoid Unit (Refer to item 6-9, then hang off the Pinch Solenoid Lever as shown in Figure 6-5-1).
7. Remove the cut washer (A) and remove the Pinch Solenoid Lever as shown in Figure 6-5-1.
8. Remove the cut washer (B) and remove the Pinch Arm Unit as shown in Figure 6-5-1.

(Installation)

1. Install the new Pinch Arm Unit follow the removal steps in reverse order then Pinch Solenoid Position Adjustment is necessary (Refer to item 5-3).

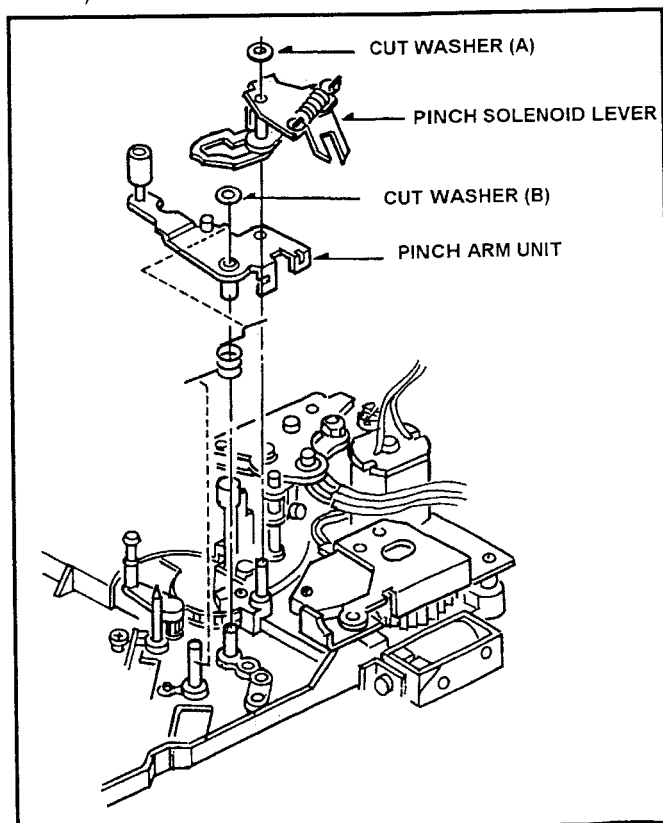


Fig. 6-5-1 Removal of Pinch Arm Unit

6-6. Supply and Take Up Brake Arm Unit Replacement

(Removal)

1. Remove the Top Case Unit.
2. Remove the Front Loading Unit.
3. Press the iron core of Brake Solenoid for release the Brake.
4. Remove the cut washers (A) and remove the supply and Take Up Brake Arm Unit as shown in Figure 6-6-1.

(Installation)

1. When install the new Brake Arm Unit first, hang on the Brake Arm Spring as shown in Figure 6-6-1.
2. Follow the previous steps in reverse order.
3. Main Brake Torque confirmation is required (Refer to item 5-4).
4. Confirm that the Tension value on the Playback mode (Refer to item 5-16).

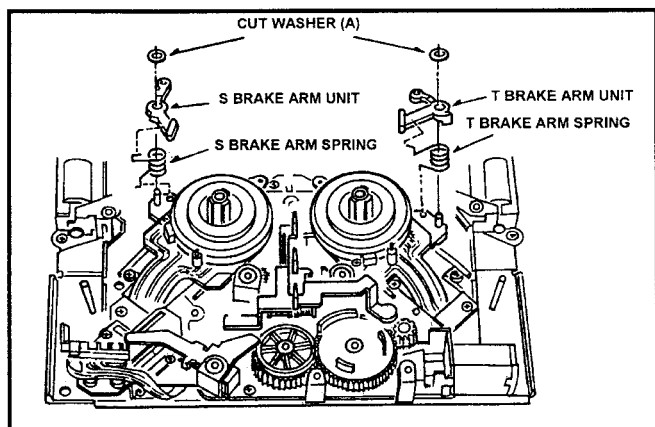


Fig. 6-6-1 Removal of S & T Brake Arm Unit

6-7. Mode Select Switch Unit Replacement

(Removal)

1. Remove the Top Case Unit.
2. Remove the Front Loading Unit.
3. Remove the Bottom Case Unit.
4. Open the P.C.Board Unit and remove the Shield Plate.
5. Disconnect the connector P22 on the Servo P.C.Board as shown as Figure 6-3-1.
6. Remove the Pinch Solenoid Unit and Loading Motor Neutral Unit (Refer to item 6-4).
7. Remove the screw (D) and remove the Mode Select Switch Unit from Loading Motor Neutral Unit as shown in Figure 6-7-1.

(Installation)

1. Install the New Mode Select Switch Unit follow the removal steps in reverse order (Please refer to item [6-4. Loading Motor Unit Replacement]).
2. After install the Pinch Solenoid Unit, Pinch Solenoid Position adjustment is required (Refer to item 5-3).

Note: Be careful the pin of Mode Switch Unit should be matched to groove of Main Cam Gear.

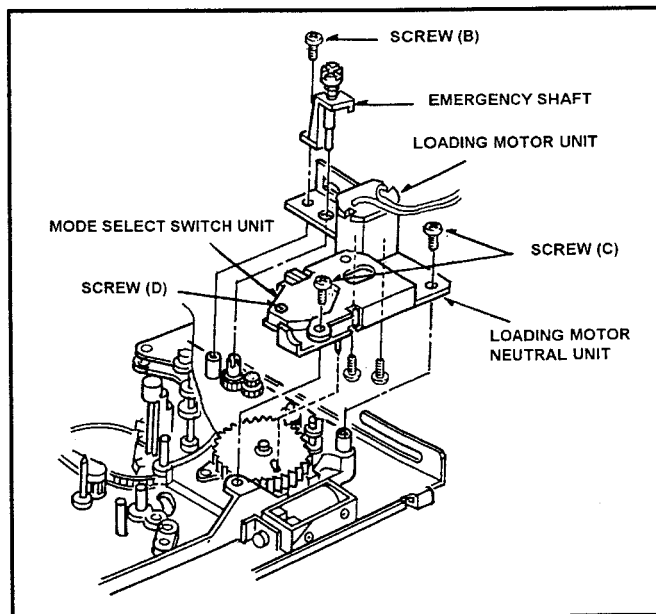


Fig. 6-7-1 Remove of Mode Select Switch Unit

6-8. Cleaning Arm Unit Replacement

(Removal)

1. Remove the Top Case Unit.
2. Unscrew the 2 screws (A) and remove the T1 Guide.
3. Hang off the tip portion (B) of cleaning Arm Unit and hang off the spring from Cleaner Arm Unit, then remove the Cleaning Arm Unit as shown in Figure 6-8-1.

(Installation)

1. Install the Cleaning Arm Unit, then hang on the spring to Cleaning Arm Unit.
2. Install the T1 Guide by tightening 2 screws (A).
3. Press the iron core of the Cleaner Solenoid and confirm that the Cleaner Roller is rotated, when the cylinder is rotated by hand.
4. T1 Guide position adjustment should be performed as follows.

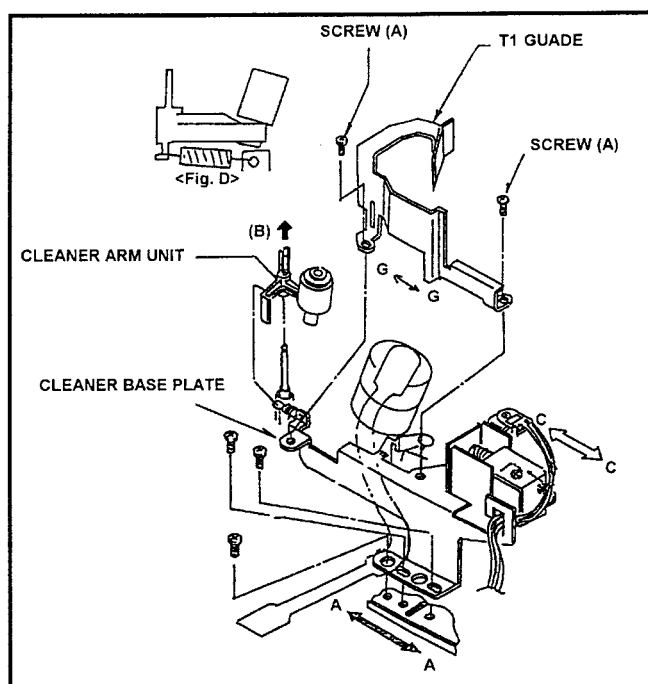


Fig. 6-8-1 Removal of Cleaner Roller Unit

6-8-1. T1 Guide Position Adjustment

Place the Loading completed position.

< How to making the Loading Condition >

- Open the "Servo Adjust" menu in the "Service Menu".
 - Select the item "T TORQUE" and press the ENTER button for making the loading condition and turn power to off.
1. Observe the clearance (B) between T1 Guide and T1 post as shown in Figure 6-8-2. And make sure that it is within 0.2 to 0.5mm.
 2. If not, loosen the 2 screws (A) and adjust the position of T1 Guide by moving arrow direction (G \leftrightarrow G) so that the clearance (B) is within specification. And tighten the 2 screws (A).

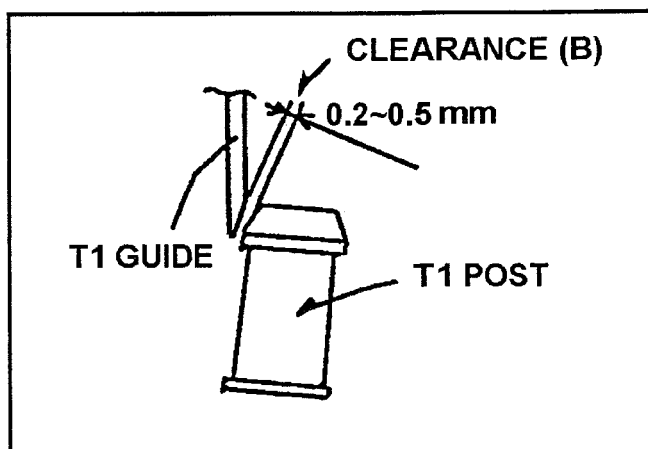


Fig. 6-8-2 Adjust of T1 Guide

6-9. Pinch Solenoid Replacement

(Removal)

1. Remove the Top Case Unit.
2. Remove the Front Loading Unit.
3. Remove the Bottom Case Unit.
4. Open the P.C.Board Unit and remove the Shield Plate.
5. Disconnect the connector P20 on the Servo P.C.Board as shown in Figure 6-3-1.
6. Unscrew the 2 screws (A) and remove the Pinch Solenoid Unit as shown in Figure 6-9-1.
7. Unscrew the 2 screws (B) and remove the Pinch Solenoid Angle as shown in Figure 6-9-1.
8. Unscrew the 2 screws (C) and remove the Pinch Solenoid from the Pinch Solenoid Base.

(Installation)

1. Install the new Pinch Solenoid follow the removal steps in reverse order.
2. After installation, Pinch Solenoid Position Adjustment is required (Refer to item 5-3).

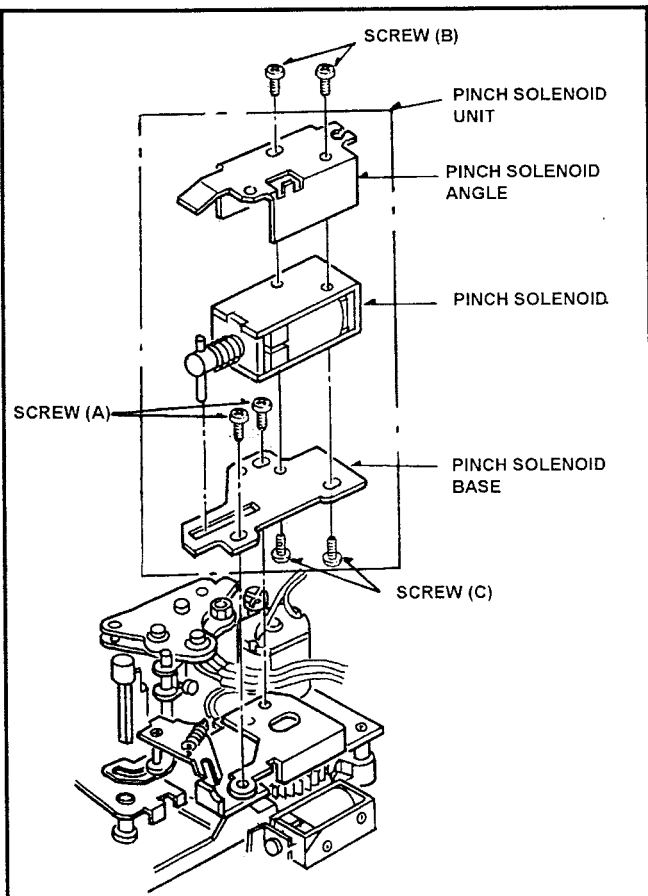


Fig. 6-9-1. Removal of Pinch Solenoid

6-10. Supply Brake Solenoid Replacement and Adjustment

(Removal)

1. Remove the Top Case Unit.
2. Remove the Front Loading Unit.
3. Remove the Bottom Case Unit.
4. Open the P.C.Board Unit and remove the Shield Plate.
5. Disconnect the connector P15 on the Mech I/F P.C.Board.
6. Unscrew the 2 screws (A) and remove the Supply Brake Solenoid Base Unit as shown in Figure 6-10-1.
7. Unscrew the 2 screws (B) and remove the supply Brake Solenoid from Supply Brake Solenoid Base Unit as shown in Figure 6-10-1.

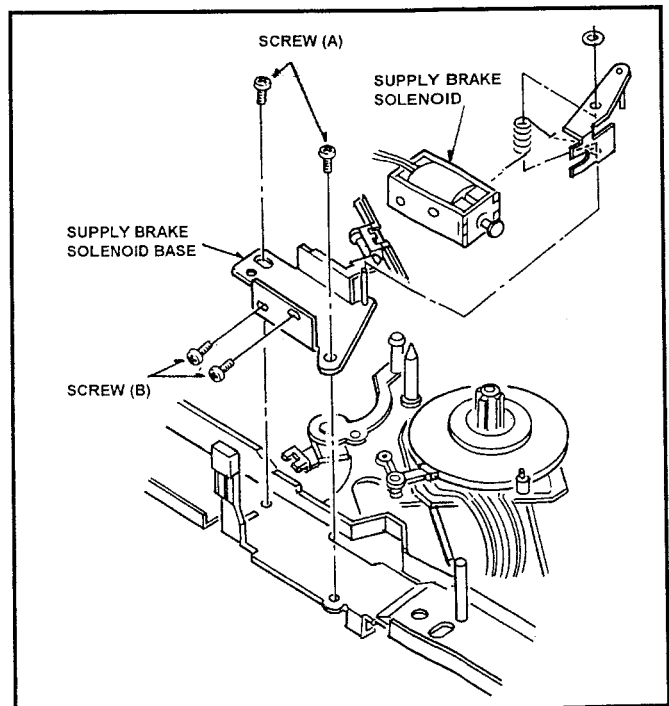


Fig. 6-10-1 Removal of Supply Brake Solenoid

(Installation)

1. Install the new supply Brake Solenoid follow the removal steps in reverse order.

(Adjustment)

1. Place the reels in the M cassette size position.
2. Observe the clearance (A) between Brake pad and it's turntable as shown in Figure 6-10-2. And make sure that it is within 0.2 to 0.5mm.
3. If not, loosen the 2 screws (A), which fixed supply and Take Up Brake Solenoid Unit. And adjust the position of Brake Solenoid Unit by moving arrow direction so that the clearance (A) is within specification. And tighten the 2 screws (A).
4. After adjustment, change the reel position to S and L cassette size, and confirm that the clearance (A) is within specification.

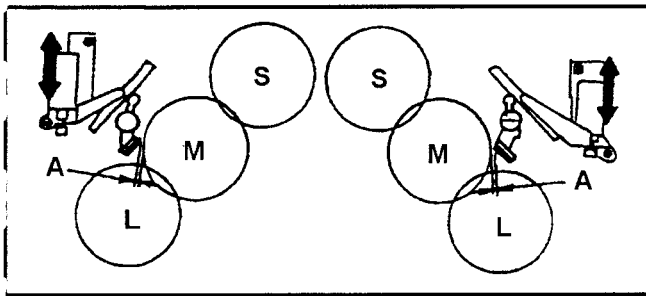


Fig. 6-10-2 Brake Solenoid Adjustment

6-11. Take Up Brake Solenoid Replacement and Adjustment

(Removal)

1. Remove the Top Case Unit.
2. Remove the Front Loading Unit.
3. Remove the Bottom Case Unit.
4. Open the P.C.Board Unit and remove the Shield Plate.
5. Disconnect the connector P18 on the Servo P.C.Board.
6. Unscrew the 2 screws (A) and remove the Take Up Brake Solenoid Base Unit as shown in Figure 6-11-1.
7. Unscrew the 2 screws (B) and remove the Take Up Brake Solenoid from Take Up Brake Solenoid Base Unit as shown in Figure 6-11-1.

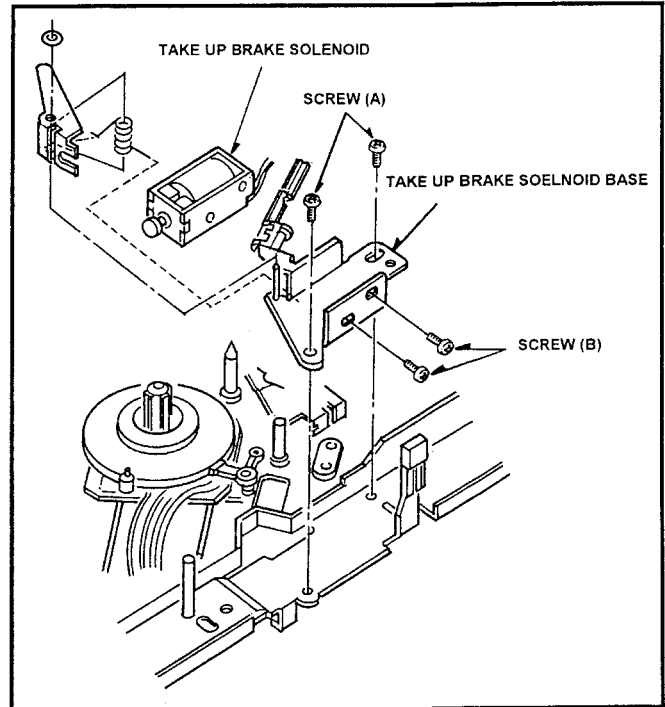


Fig. 6-11-1 Removal of Take Up Brake Solenoid

(Installation)

1. Install the new Take up Brake Solenoid follow the removal steps in reverse order.

Note: Hang on the Take up Brake Spring as shown in Figure 6-11-1.

2. After installation, position adjustment should be performed as follows.

(Adjustment)

1. Please adjust the position of Take up Brake Solenoid Unit follow the adjustment procedure, which is described item 6-10.

6-12. MIC Rail Unit Replacement

(Removal)

1. Remove the Top Case Unit.
2. Remove the Front Loading Unit.
3. Remove the Bottom Case Unit.
4. Open the P.C.Board Unit and remove the Shield Plate.
5. Disconnect the connector P17 on Servo P.C.Board.
6. Remove the MIC Drive Rev Spring at MIC Rail Unit side as shown in Figure 6-12-1.
7. Unscrew the 3 screws (A) and remove the MIC Rail Unit as shown in Figure 6-12-1.

(Installation)

1. Install the new MIC Rail Unit follow the removal steps in reverse order.
2. Confirm that the M and L cassettes touch to MIC Rail Unit correctly.

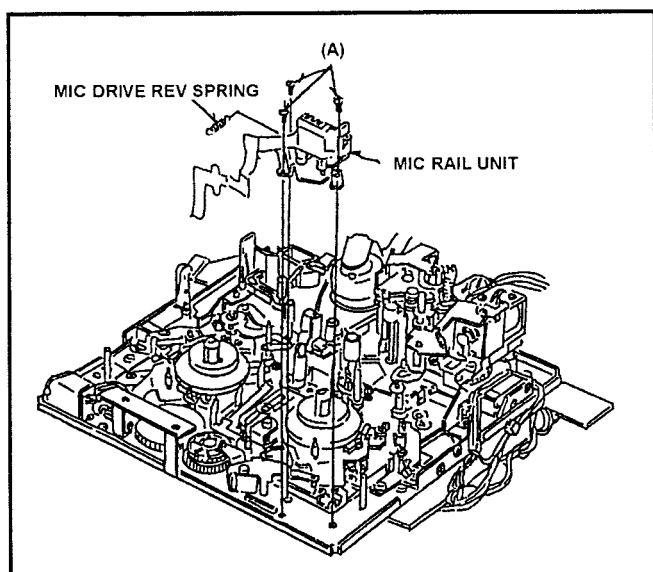


Fig. 6-12-1 Removal of MIC Rail Unit

6-13. S1 Post Loading Arm Unit Replacement and Adjustment

(Removal)

1. Remove the Top Case Unit.
2. Remove the Front Loading Unit.
3. Remove the S5 Post Base Unit (Refer to item 6-17).
4. Remove the Tension Arm Unit (Refer to item 6-18).
5. Unscrew the screw (A) and remove the S1 Post from Loading Rail as shown in Figure 6-13-1.
6. Remove the Cut Washer (B) and remove the S1 Loading Arm Unit as shown in Figure 6-13-1.

(Installation)

1. Install the new S1 Loading Arm Unit follow the removal steps in reverse order, then S1 Post Loading Arm Unit Phase Adjustment should be performed as follows.
2. After installation, confirm that the S1 Post moving smoothly on the Loading Rail.
3. Tension Arm (Refer to item 5-7), Post Height Pre-Adjustment (Refer to item 5-5) and Linearity Adjustment. (Refer to item 5-18 [Tape Pass Adjustment Procedure]) should be performed.

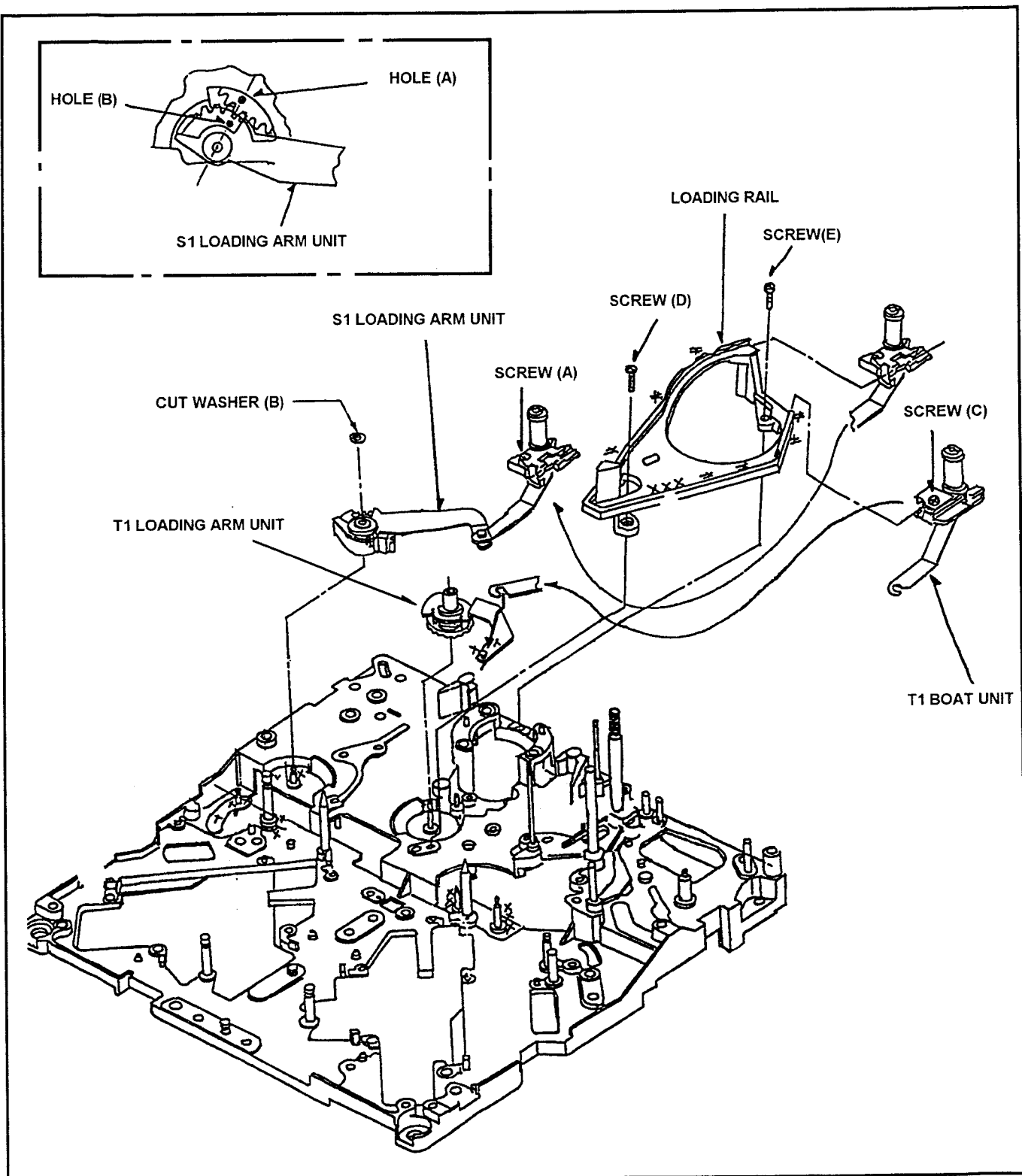


Fig. 6-13-1 Removal of S1 Post Loading Arm Unit

(Adjustment)

1. When install the S1 Post Loading Arm Unit, then the hole (A) should be matched hole (B) as shown in Figure 6-13-1.

6-14. T1 Boat Unit Replacement

(Removal)

1. Remove the Top Case Unit.
2. Remove the Front Loading Unit.
3. Unscrew the screw (C) and remove the T1 Post from Loading Rail as shown in Figure 6-13-1.
4. Hang off the T1 Boat Unit from T1 Loading Arm Unit as shown in Figure 6-13-1.

(Installation)

1. Install the new T1 Boat Unit follow the removal steps in reverse order.
2. After installation confirm that the T1 Post moving smoothly on the Loading Rail.
3. Linearity adjustment (Refer to item 5-18 [Tape Pass Adjustment Procedure]) should be performed.

6-14-1. T1 Loading Arm Unit Replacement and Adjustment

(Removal)

1. Remove the Top Case Unit.
2. Remove the Front Loading Unit.
3. Remove the Cylinder Unit. (Refer to item 6-1).
4. Move the T1 Post to loading direction by manual ejecting method until the screw (D) can be removal position as shown in Figure 6-13-1.
5. Unscrew the 2 screws (A) and (C), then remove the S1 and T1 Post from Loading Rail as shown in Figure 6-13-1.
6. Unscrew the 2 screws (D) and (E), then remove the Loading Rail as shown in Figure 6-13-1.
7. Remove the T1 Loading Arm Unit as shown in Figure 6-13-1.

(Installation)

1. Install the T1 Loading Arm Unit follow the removal steps in reverse order, then Phase Adjustment should be performed as follows.

Note: This replacement should be performed simultaneously, replacement of Cylinder Unit. It is convenience for Replacement of T1 Loading Arm Unit.

(Adjustment)

1. When install the T1 Loading Arm Unit, then the hole (A) should be matched hole (B) as shown in Figure 6-14-1.
2. After installation confirm that the S1 and T1 Post moving smoothly on the Loading Rail.
3. Post Height Pre-adjustment (Refer to item 5-5) and Linearity adjustment (Refer to item 5-18 [Tape Pass Adjustment Procedure]) should be performed.

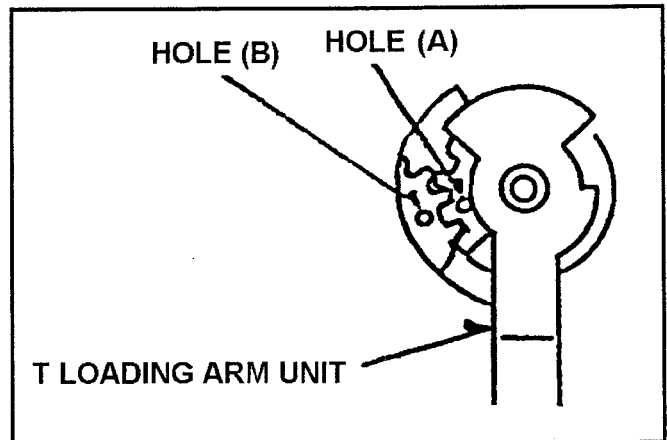


Fig. 6-14-1 Phase Adjustment of T1 Loading Arm Unit

6-15. Cleaner Solenoid Replacement and Adjustment

(Removal)

1. Remove the Top Case Unit.
2. Remove the Front Loading Unit.
3. Remove the Bottom Case Unit.
4. Open the P.C.Board Unit and remove the Shield Plate.
5. Disconnect the connector P37 on the Servo P.C.Board.
6. Unscrew the 2 screws (A) and remove the Cleaner Solenoid Unit as shown in Figure 6-15-1.
7. Unscrew the 2 screws (B) and remove the Cleaner Solenoid as shown in Figure 6-15-1.

(Installation)

1. Install the new Cleaner Solenoid follow the removal steps in reverse order.
2. After installation, Cleaner Solenoid Position adjustment should be performed as follows.

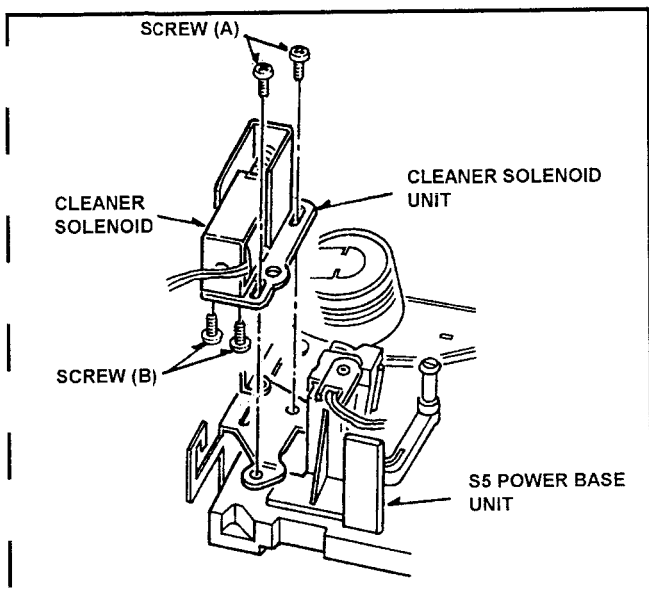


Fig. 6-15-1 Removal of Cleaner Solenoid

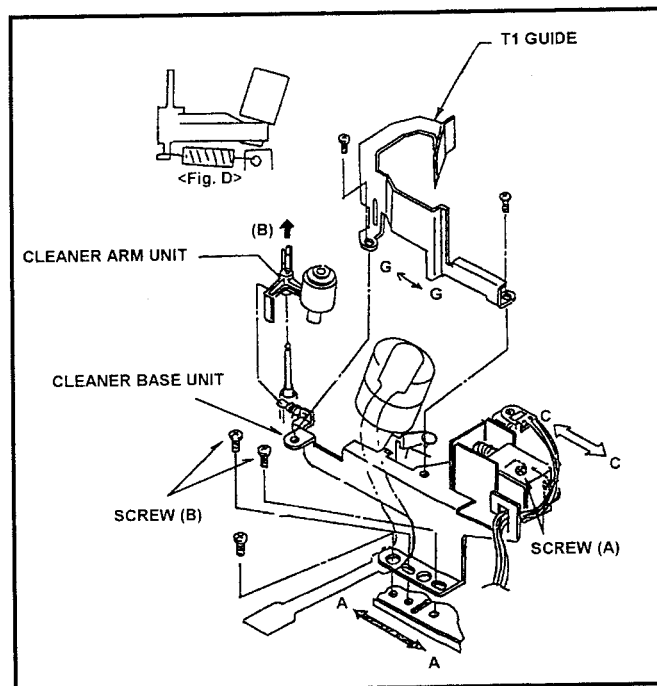


Fig. 6-15-4 Cleaner Solenoid Position Adjustment

6-15-1. Cleaner Solenoid Position Adjustment

※ Tools Required : Eccentric Driver (VFK0357)

1. Press the iron core of Cleaner Solenoid.
2. Observe the clearance (D) between Cleaning Arm Unit and Cleaner Base Plate as shown in Figure 6-15-2. And make sure that it is within 0.5 to 0.7mm.
3. If not, loosen the 2 screws (A) and adjust the position of Cleaner Solenoid Unit by moving arrow direction (C⇌C) using the Eccentric drive so that the clearance (D) is within specification. And tighten the 2 screws.
4. After adjustment, confirm that as follow.
5. Press the iron core of Cleaner Solenoid and released it, then the Cleaning Roller is return to original position.
6. Press the iron core of the Cleaner Solenoid and confirm that the Cleaner Roller is rotated, when the Cylinder is rotated by hand.

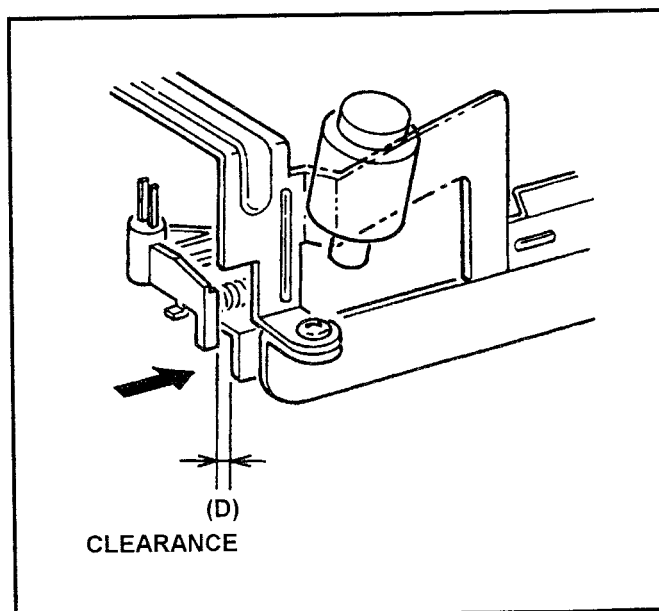


Fig. 6-15-2 Cleaner Solenoid Position Adjustment

Note: If remove the cleaner Base Plate, Cleaner roller Position adjustment should be performed.

6-15-2. Cleaner Roller Position Adjustment

※ Tools Required : Eccentric Driver (VFK0357)

1. Observe the clearance (A) between Cleaner Roller and cylinder Unit as shown in Figure 6-15-3. And make sure that it is within 1.0 to 1.2mm.
2. If not, loosen the 2 screws (B) and adjust the position of Cleaner Base Plate by moving arrow direction (A ⇔ A) using the Eccentric driver so that the clearance (A) is within specification. And tighten the 2 screws (B).

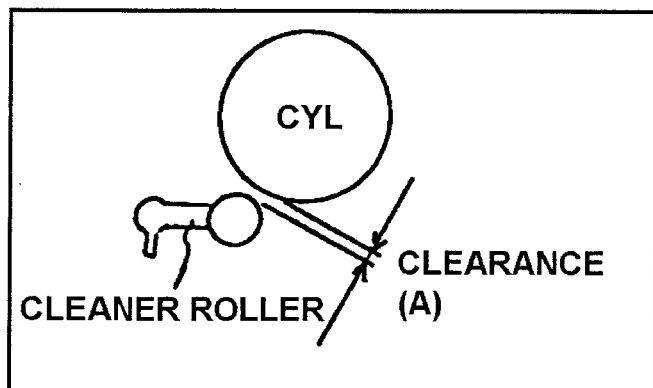


Fig. 6-15-3 Cleaner Roller Position Adjustment

6-16. Reel Drive Motor Unit Replacement

(Removal)

1. Remove the Top Case Unit.
2. Remove the Front Loading Unit.
3. Remove the Bottom Case Unit.
4. Open the P.C.Board Unit and remove the Shield Plate.
5. Disconnect the connector P16 on the Servo P.C.Board.
6. Unscrew the 2 screws (A) and remove the Reel Drive Sensor P.C.Board as shown in Figure 6-16-1.
7. Unscrew the 2 screws (B) and remove the Reel Drive Motor Unit as shown in Figure 6-16-1.

(Installation)

1. Install the new Reel Drive Motor Unit follow the removal step in reverse order.

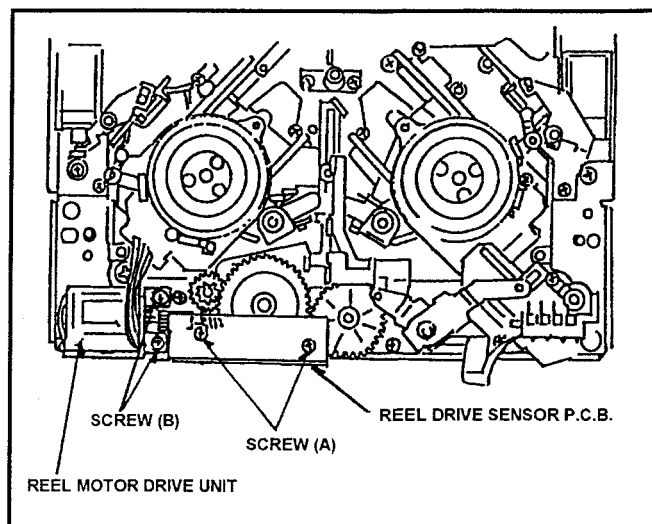


Fig. 6-16-1 Removal of Reel Drive Motor Unit

6-17. S5 Post Base Unit Replacement

(Removal)

1. Remove the Top Case Unit.
2. Remove the Front Loading Unit.
3. Unscrew the screw (A) and remove the S5 Post Base Unit as shown in Figure 6-17-1.

(Installation)

1. Install the S5 post Base Unit follow the removal steps in reverse order, then be careful the S5 Post Base Unit is install to mech chassis as shown in Figure 6-17-1.
2. After installation, Post Height pre-adjustment (Refer to item 5-5) and Linearity adjustment (Refer to item 5-18 [Tape Pass Adjustment Procedure]) should be performed.

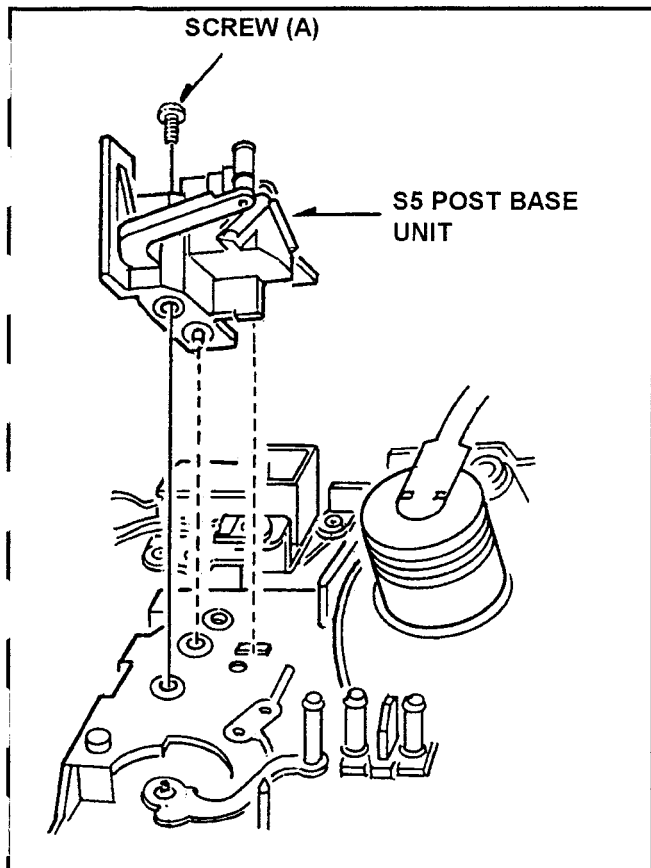


Fig. 6-17-1 Removal of S5 Post Base Unit

6-18. Tension Arm Unit Replacement

(Removal)

1. Remove the Top Case Unit.
2. Remove the Front Loading Unit.
3. Remove the Cut Washer (A) and hang off the Tension Regi Spring, then remove the Tension Arm Unit as shown in Figure 6-18-1.

(Installation)

1. Install the new Tension Arm Unit follow the removal steps in reverses order.
2. After installation, Tension Arm Adjustment should be performed the following steps.

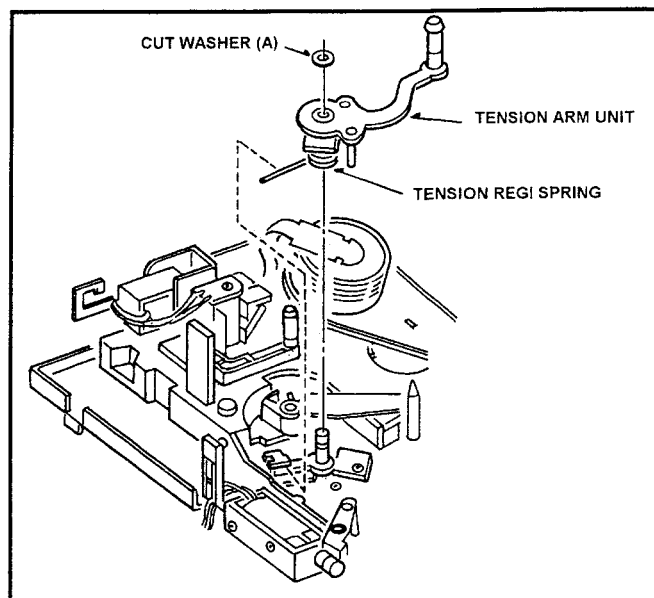
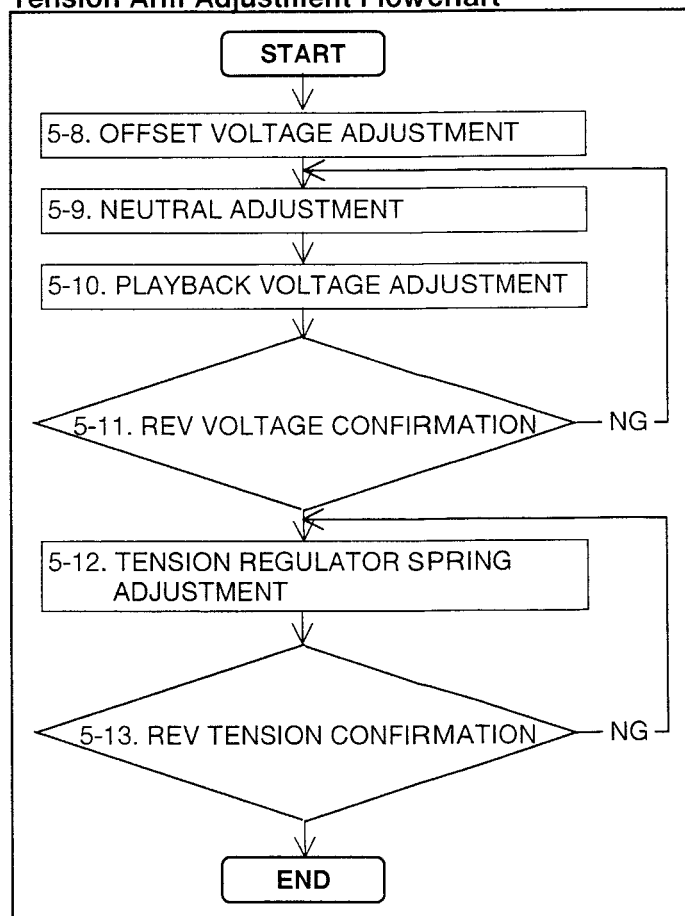


Fig. 6-18-1 Removal of Tension Arm Unit

Tension Arm Adjustment Flowchart



6-19. Main Cam Gear Replacement

(Removal)

1. Remove the Top Case Unit.
2. Remove the Front Loading Unit.
3. Remove the Pinch Solenoid Unit (Refer to item 6-5) and Loading Motor Neutral Unit (Refer to item 6-4).
4. Remove the Main Cam Gear as shown in Figure 6-19-1.

(Installation)

1. Install the Main Cam Gear, then the pin of Main Cam Arm Unit (※) should be matched with the groove position of Main Cam Gear as shown in Figure 6-19-1.
2. Follow the removal steps in reverse order.
3. After installation, Pinch Solenoid Position Adjustment is required (Refer to item 5-3).

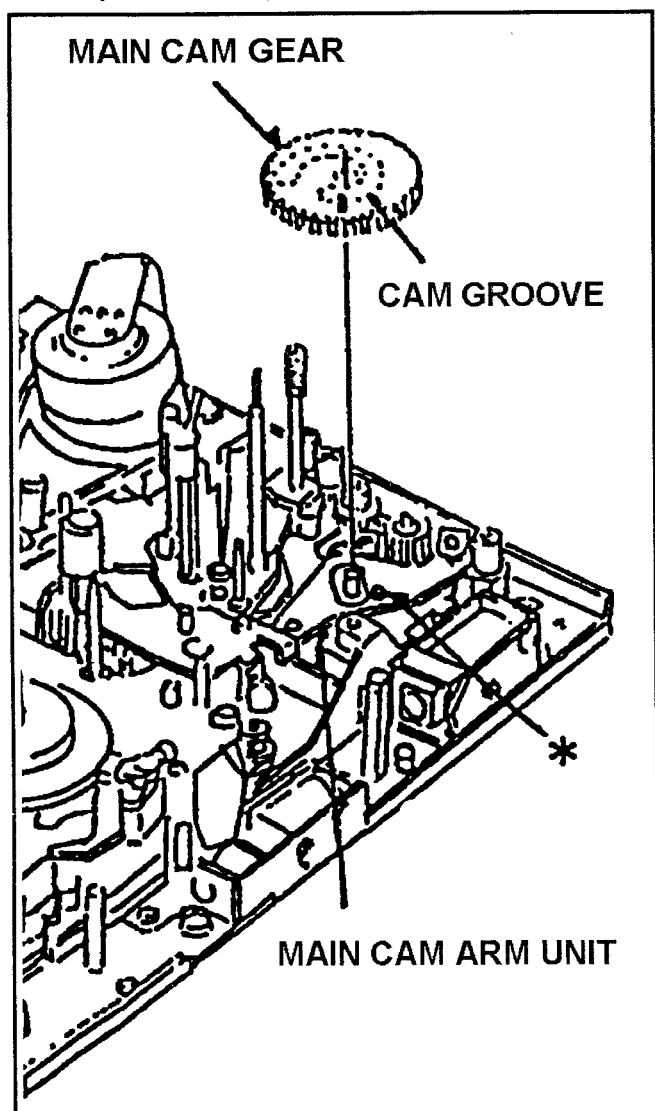


Fig. 6-19-1 Removal of Main Cam Gear

6-20. M-Stopper Solenoid Replacement And Adjustment

(Removal)

1. Remove the Top Case Unit.
2. Remove the Front Loading Unit.
3. Remove the Bottom Case Unit.
4. Open the P.C.Board Unit and remove the Shield Plate.
5. Remove the connector P24 on the Servo P.C.Board.
6. Unscrew the 4 screws (A) and (B) and remove the M-Stopper Solenoid as shown in Figure 6-20-1.

(Installation)

1. Install the new M-Stopper Solenoid follow the removal steps in reverse order.
2. After installation, position adjustment should be performed as follows.

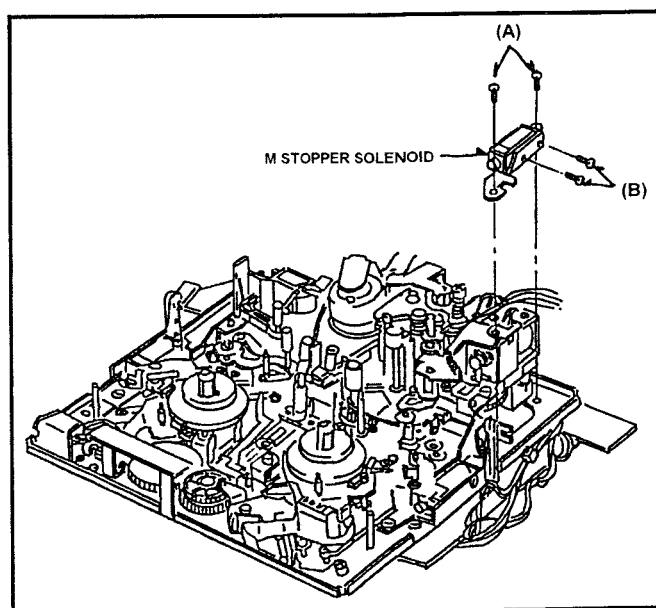


Fig. 6-20-1 Removal of M-Stopper Solenoid

(Adjustment)

1. Place the reels in the L size position.
2. Push the iron core of M-Stopper Solenoid by hand.
3. Observe the clearance (A) between Mech Chassis and M-Stopper as shown in Figure 6-20-2. And make sure that it is within 1.1 to 1.3mm.
4. If not, loosen the 2 screws (A), which fixed M-Stopper Solenoid. And adjust the position of M-Stopper Solenoid so that the clearance (A) is within specification. And tighten the 2 screws (A).

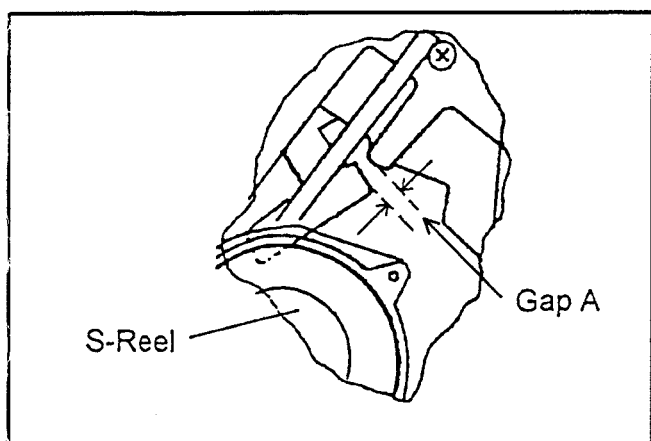


Fig. 6-20-2 M-Stopper Solenoid Adjustment

6-21. L-M Release Angle Unit Replacement

(Removal)

1. Remove the Top Case Unit.
2. Remove the Front Loading Unit.
3. Unscrew the 2 screws (A) and remove the L-M Release Angle Unit as shown in Figure 6-21-1.

(Installation)

1. Install the new L-M Release Angle Unit follow the removal steps reverse order.

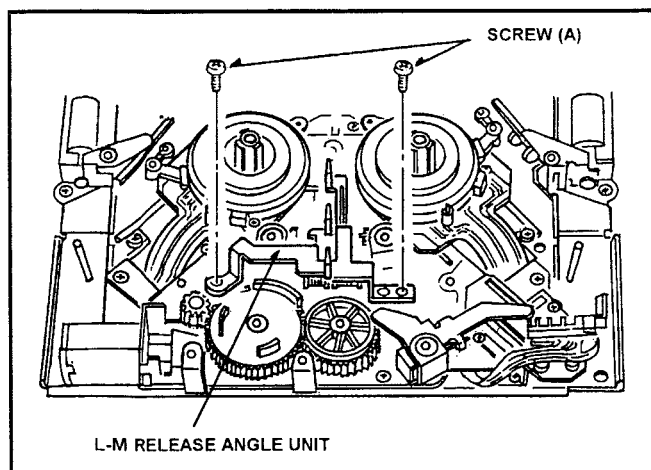


Fig. 6-21-1 Removal of L-M Release Angle Unit

6-22. Slide Rod Unit Replacement and Adjustment

(Removal)

1. Remove the Top Case Unit.
2. Remove the Front Loading Unit.
3. Remove the L-M Release Angle Unit. (Refer to item 6-21).
4. Remove the Reel Drive Sensor P.C.Board (Refer to item 6-16).
5. Remove the Cut Washer (A) and remove the Reel Drive Cam Gear.
6. Remove the Cut Washer (B) and remove the MIC Drive Arm Unit.
7. Remove the Cut Washer (C) and remove the MIC Geneva Gear.
8. Remove the Cut Washer (D) and remove the Reel Drive Arm Unit as shown in Figure 6-22-3.
9. Remove the Supply and Take Up Reel Rotor Unit (Refer to item 6-3-1).
10. Remove the 2 Cut Washers (E) and remove the Supply and Take Up Base Drive Arm Unit.
11. Remove the 2 Cut Washers (F) and remove the Slide Rod Unit.

(Installation)

1. Install the new Slide Rod Unit follow the removal steps in reverse order.
2. When install the Reel Drive Cam Gear and MIC Geneva Gear, then phase adjustment should be performed as follows.

(Adjustment)

1. Install the MIC Geneva Gear to the Chassis.
2. Place the Reels in the M-Size position by hand.
3. Install the MIC Drive Arm Unit.
4. Place the MIC SW in front position on MIC Rail Unit by rotation of MIC Geneva Gear, and then MIC Geneva Gear should be positioned as shown in Figure 6-22-2.

Note: Protrusion of MIC DRIVE Arm Unit is positioned as shown in Figure 6-22-2.

5. Install the Reel Drive Cam Gear and hole of Reel Drive Cam Gear should be matched with the hole of MIC Geneva Gear as shown in Figure 6-22-2.
6. Install the Cut Washer (A), (B) and (C) as shown in Figure 6-22-2.

※Point of Adjustment

- 1) Reel in M-Size position.
- 2) MIC SW in front position of MIC Rail Unit.
- 3) Portrusion of MIC Drive Arm Unit is positioned as shown in Figure 6-22-2.
- 4) Holes between Reel Drive Cam Gear and MIC Geneva Gear are matched.

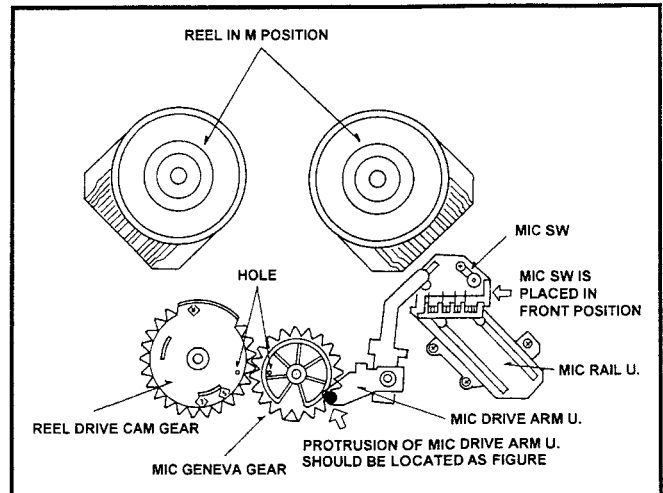


Fig. 6-22-2 Gear Phase Adjustment

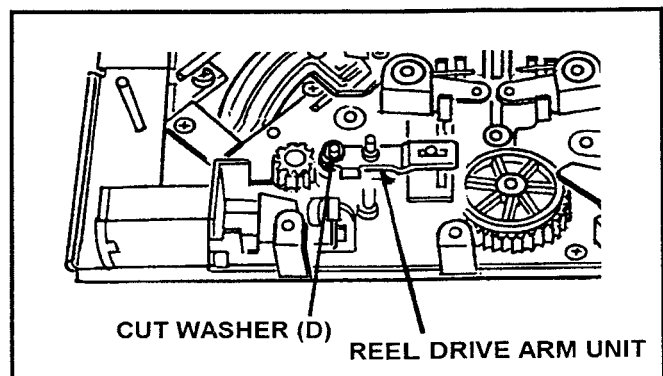


Fig. 6-22-3 Removal of Reel Drive Arm Unit

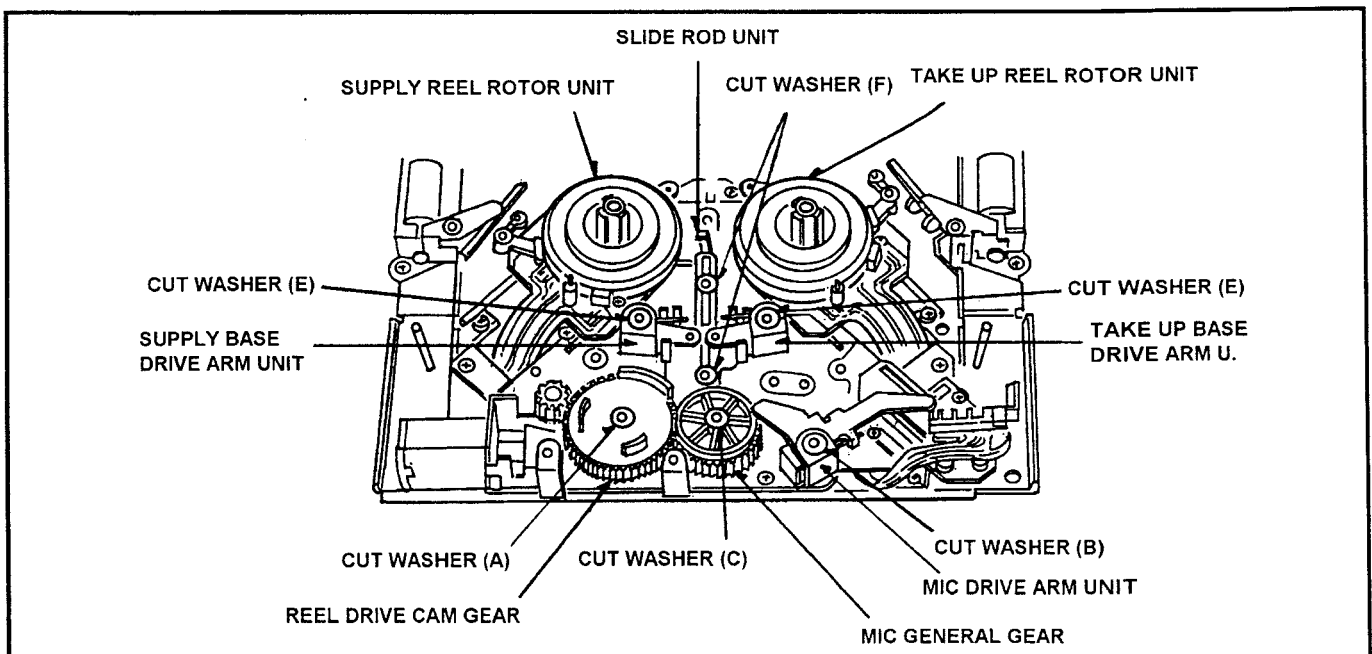


Fig. 6-22-1 Removal of Slide Red Unit

6-23. T4 Post Phase Adjustment

1. Confirm that the hole (B) of T4 connection Gear was matched to hole of T4 post as shown in figure 6-23-1.
2. Confirm that the portion (C) of T4 connection Gear and hole (A), which are located as shown in figure 6-23-1.

Note: This confirmation should be performed on unloading condition.

3. If not, adjust the phase of T4 post follow the above procedure.

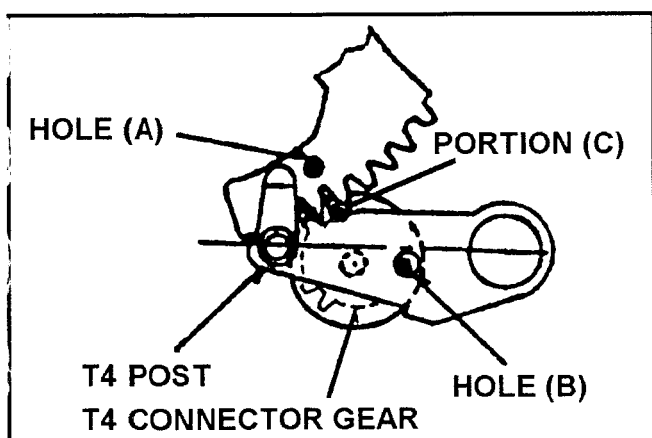


Fig. 6-23-1 Phase of T4 Post

6-24. Thrust Adjustment Screw Replacement

1. Remove the Thrust Adjustment Screw.
2. Enforce cleaning of point department of capstan shaft with an applicator.
3. Put the oil (VFK0906) on a new Thrust Adjustment Screw, and install the upper end of the Capstan Housing.
4. Turn the Thrust Adjustment Screw slowly to clockwise until the Capstan Rotor just starts turning (separate from the Capstan Rotor).
5. Turn the Thrust Adjustment Screw another an angle of 270° from 180° (about 225°) clockwise as shown in the Fig. 6-24-2.
6. Put the glue (EX: Three Bond 1401B) on the Thrust Adjustment Screw.

7. Confirm whether the Oil Seal doesn't come in contact with the Capstan Housing.

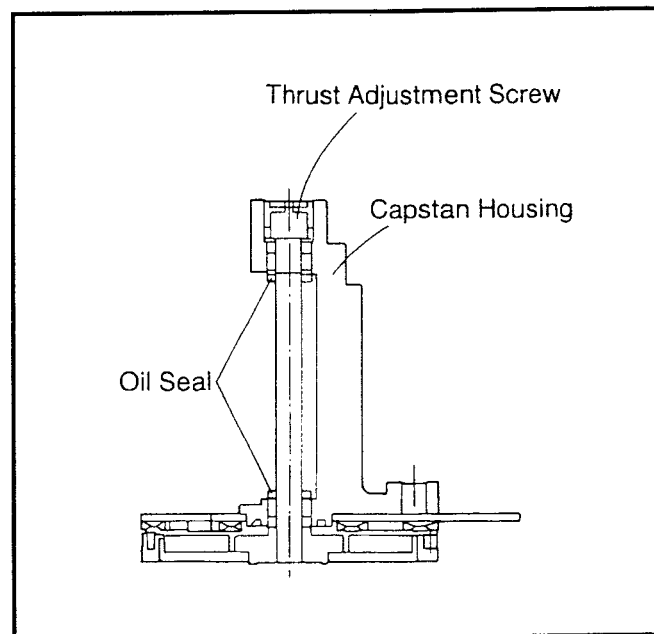


Fig. 6-24-1

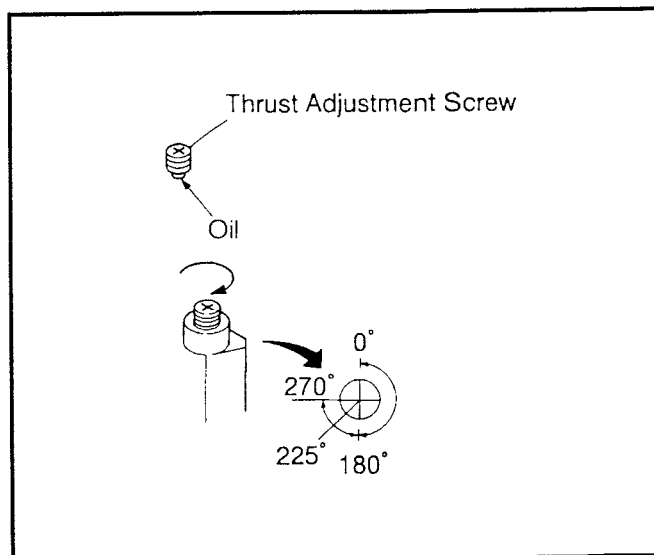


Fig. 6-24-2

Memo

SECTION 3

ELECTRICAL ADJUSTMENTS

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<CAUTION>

The some of the Test Point and VR on the Digital 1 P. C. Board are difference between schematic diagram and P. C. Board. Please refer to the following comparison chart when adjust the Digital 1 P. C. Board.

Convert Procedure : TP34xxx → TP1xxx VR34xxx → VR1xxx
TP35xxx → TP2xxx VR35xxx → VR2xxx

Comparison Chart for Digital 1 P. C. Board

TEST POINT		VR	
P. C. Board	Schematic	P. C. Board	Schematic
TP1301	TP34301	VR1803	VR34803
TP1701	TP34701	VR1902	VR34902
TP1702	TP34702	VR1801	VR34801
TP1802	TP34802	VR1901	VR34901
TP1805	TP34805	VR1702	VR34702
TP2702	TP35702	VC1901	VC34901
TP2703	TP35703		
TP2704	TP35704		

1. Power Adjustment

1-1. +5.6V Adjustment

BOARD	DD CONV. 1
SPEC.	+5.70 ± 0.10V
TEST	TP1006 (GND: TG1001)
ADJUST	VR1001
INPUT	-
MODE	-
TAPE	-
M. EQ	Digital Volt Meter

1. Adjust VR1001 so that the voltage is in the specification.

1-2. +9V Adjustment

BOARD	DD CONV. 1
SPEC.	+9.10 ± 0.10V
TEST	TP1007 (GND: TG1001)
ADJUST	VR1002
INPUT	-
MODE	-
TAPE	-
M. EQ	Digital Volt Meter

1. Adjust VR1002 so that the voltage is in the specification.

1-3. -5.6V Adjustment

BOARD	DD CONV. 1
SPEC.	-5.70 \pm 0.10V
TEST	TP1003 (GND: TG1001)
ADJUST	VR1003
INPUT	-
MODE	-
TAPE	-
M. EQ	Digital Volt Meter

1. Adjust VR1003 so that the voltage is in the specification.

1-4. -9V Adjustment

BOARD	DD CONV. 1
SPEC.	-9 \pm 0.10V
TEST	TP1004 (GND: TG1001)
ADJUST	VR1005
INPUT	-
MODE	-
TAPE	-
M. EQ	Digital Volt Meter

1. Adjust VR1005 so that the voltage is in the specification.

1-5. +3.3V Adjustment

BOARD	DD CONV. 2
SPEC.	+3.42 ± 0.05V
TEST	TP1204 (GND: TG1201)
ADJUST	VR1201
INPUT	-
MODE	-
TAPE	-
M. EQ	Digital Volt Meter

1. Adjust VR1201 so that the voltage is in the specification.

1-6. +5V Adjustment

BOARD	DD CONV. 2
SPEC.	+5.15 ± 0.05V
TEST	TP1206 (GND: TG1201)
ADJUST	VR1202
INPUT	-
MODE	-
TAPE	-
M. EQ	Digital Volt Meter

1. Adjust VR1202 so that the voltage is in the specification.

1-7. Power Oscillation Frequency Adjustment (DD CONV. 1/2)

BOARD	DD CONV. 1	DD CONV. 2
SPEC.	102 ± 2KHz	
TEST	TP1008 (GND: TG1001)	TP1208 (GND: TG1201)
ADJUST	VR1004	VR1204
INPUT	-	
MODE	-	
TAPE	-	
M. EQ	Frequency Counter	

1. Adjust VR1004/VR1204 so that the voltage is in the specification.

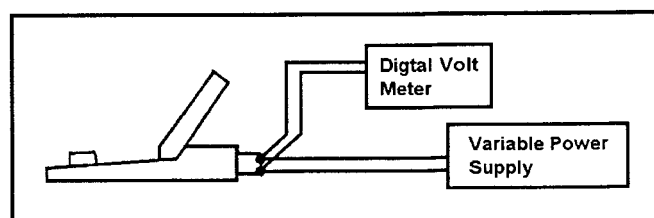
1-8. Battery Voltage Detection Adjustment

BOARD	-
SPEC.	+12.00 ± 0.02V
TEST	DC IN (VTR side end of XLR4P)
ADJUST	Service Menu E02: UNDERCUT ADJ of VTR1 Side
INPUT	-
MODE	EJECT
TAPE	No Tape
M. EQ	Digital Volt Meter

1. Adjust the output voltage of the variable power supply to +12.00 ± 0.02V.
2. Open the SERVICE MENU and select SYSTEM by Jog Dial.
3. Press IN button and select E02: UNDERCUT ADJ.
4. Press the "ENTRY/SHIFT" button.
5. Press the OUT button to exit from SERVICE MENU.

Note:

Voltage (+3.3V, +5V, etc.) should have been adjusted.



2. Servo P.C. Board

2-1. T Reel Torque Offset Adjustment (VTR1/VTR2)

BOARD	Digital 1 and 2	
SPEC.	0 ± 5 [mV]	
TEST	VTR1	VTR2
	TP2702	TP33002
	TP2703 (GND)	TP33003 (GND)
ADJUST	A01 T OFFSET	
INPUT	---	
MODE	EJECT	
TAPE	---	
M. EQ	Digital Volt Meter	

1. Open the SERVO ADJUSTMENT MENU.
2. Adjust A01 T OFFSET by Jog Dial so that the voltage at each test point are in specification.
3. Press the OUT button to exit the SERVO ADJUSTMENT MENU.

Test Point Comparison Chart for Digital 1

P. C. Board	Schematic
TP2702	TP35702
TP2703	TP35703

2-2. S Reel Torque Offset Adjustment (VTR1/VTR2)

BOARD	Digital 1 and 2	
SPEC.	0 ± 5 [mV]	
TEST	VTR1	VTR2
	TP2704	TP33004
	TP2703 (GND)	TP33003 (GND)
ADJUST	A02 S OFFSET	
INPUT	---	
MODE	EJECT	
TAPE	---	
M. EQ	Digital Volt Meter	

1. Open the SERVO ADJUSTMENT MENU.
2. Adjust A02 S OFFSET by Jog Dial so that the voltage at each test point are in specification.
3. Press the OUT button to exit the SERVO ADJUSTMENT MENU.

Test Point Comparison Chart for Digital 1

P. C. Board	Schematic
TP2704	TP35704
TP2703	TP35703

2-3. Motor Torque Offset Adjustment (VTR1/VTR2)

BOARD	-
SPEC.	15 ± 2g (5 times average)
TEST	T-REEL MOTOR/S-REEL MOTOR
ADJUST	A03 T-TORQUE, A04 S-TORQUE
INPUT	-
MODE	STOP
TAPE	-
M. EQ	Dial Torque Gauge

1. Open the SERVO ADJUSTMENT MENU.
2. Set the Dial Torque Gauge to T-Reel Motor.
3. In loading completion, adjust the A03 T-TORQUE by turning the JOG Dial. Measure it 5 times and calculate the average, and adjust it so that the average is in the specification.
4. Set the Dial Torque Gauge to S-Reel Motor.
5. In loading completion, adjust the A04 S-TORQUE by turning the JOG Dial. Measure it 5 times and calculate the average, and adjust it so that the average is in the specification.
6. Press the OUT button to exit the SERVO ADJUSTMENT MENU.

Note:
The power should not be off when the SERVICE MENU is opened.

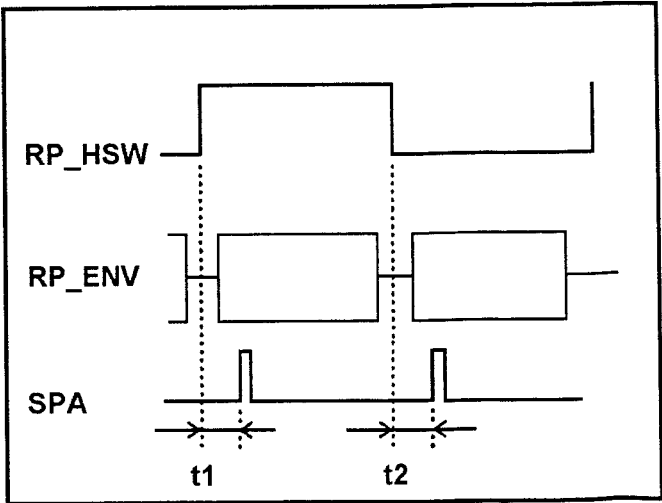
2-4. PG Shifter Adjustment (VTR1/VTR2)

BOARD	Digital 1 and 2
SPEC.	t1, t2=126.4 μs ± 2 μs
TEST	TP6001 (RP HSW), TP5001 (RP ENV) TP1301 (SPA) on Digital 1 TP1701 (SPA) on Digital 2
ADJUST	A06 : PG RISE, A07 : PG FALL
INPUT	-
MODE	PLAY
TAPE	colour Bar portion of VFM3680KM
M. EQ	Oscilloscope

1. Open the SERVO ADJUSTMENT MENU.
2. Adjust the * mark to "A06: PG RISE" .
3. Insert the Colour Bar Master Tape to the VTR and play back it.
4. After light up the SERVO LED, keep pressing the 「SHIFT」 until the right side numerical value of the monitor display "A06: PG RISE" once changes to 0 and next changes to a new numerical value.
5. Adjust the * mark to "A07: PG FALL" on the monitor screen by JOG Dial.
6. Keep pressing the 「SHIFT」 until the right side numerical value of the monitor display "A07: PG FALL" once changes to 0 and next changes to a new numerical value.
7. Confirm the t1 and t2 of RP HSW and SPA are 126.4 μs ± 2 μs.

Test Point Comparison Chart for Digital 1

P. C. Board	Schematic
TP1301	TP34301



3. Digital P.C. Board (Digital 1: VTR1) (Digital 2: VTR2)

3-1. Preparation

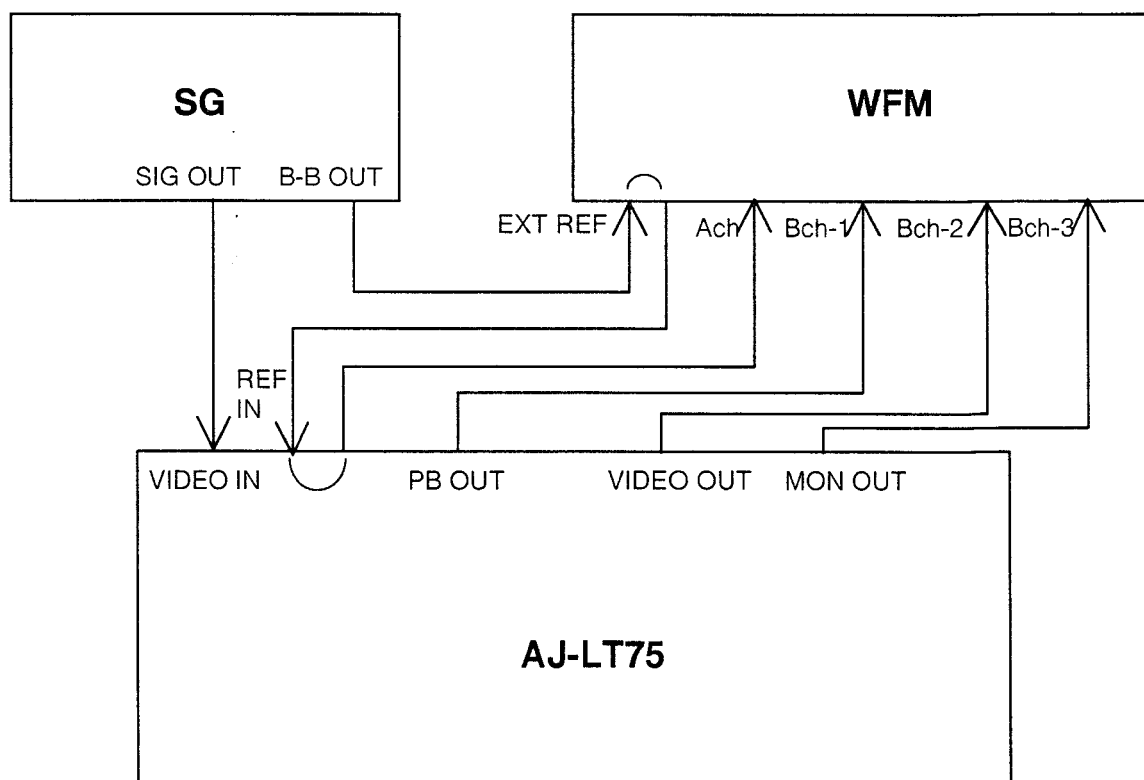
1. Unless specially designated, set the OPERATION MODE SW to SEPARATE.
2. Unless specially designation, use the input connector, output connector and Encoder VR of VTR1 in Digital 1 Adjustment, and use that of VTR2 in Digital 2 Adjustment.
3. "SYSTEM H" and "SYSTEM SC FINE" of the Encoder VR should be on center click portion. "SYS SC COARSE" of the Encoder VR should be on 0 position.
4. Adjust after about 10 minutes warm up.
5. The signal put to REF VIDEO IN should be the VIDEO IN signal or the GEN locked signal.

3-2. Error Rate Confirmation Procedure

When open the VIDEO ADJUST MENU, Audio Meter Display will be changed to Error Rate Indicator as follows,

When confirm the error rate of **VTR 2**, open the **VTR 1 VIDEO ADJUST MENU** to indicate the error rate of VTR 2.

3-1-1. Connection



3-3. Pre-Confirmation & Adjustment (VTR1-PB/VTR2-PB)

BOARD	Digital 1 (VTR1)/Digital 2 (VTR2)
SPEC.	as shown bellow
TEST	TP5802, TP5401, TP6002, TP5804
ADJUST	VR5410 (Free-run Frequency) C16: PB MAIN DL C15: PB AEQ C18: PB PLL SLICE C20: PB PLL PHASE
INPUT	-
MODE	PLAY
TAPE	Colour Bar portion of VFM3680KM
M. EQ	Frequency Counter, Oscilloscope, TV Monitor

MENU SETTING			
C22	ECC MODE	:	AL OFF
C23	CONCEAL MODE	:	OFF
C24	VITERBI MODE	:	OFF
C25	PB MODE	:	PB H
C26	ERROR MODE	:	FAST
C27	EQ AUTO ADJ	:	STOP
C28	CLOCK NO	:	---

1. Open the service menu, select "C00: EQ ADJUST" and set as above.
2. Playback a colour bar portion of the alignment tape, and confirm that any random errors appear regardless of number of errors.
3. If the picture does not appears on the TV monitor, perform the step 4 to 8.
4. In tape eject condition, adjust VR5410 so that the free-run frequency at TP5802 is 41.85 ± 0.1 MHz.
5. Playback a colour bar portion of the alignment tape, trigger with TP6002, and adjust [PB MAIN DL] [PB AEQ] so that the waveform at TP5401 becomes as shown below.
6. Adjust the [PB PLL SLICE] so that the waveform at TP5804 becomes as shown below.

Note:

The input of the scope from TP5804 should be AC IN mode.

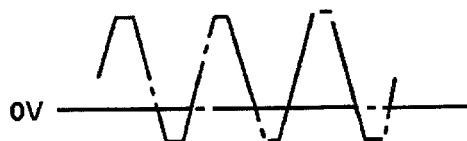
< Before Adjustment >



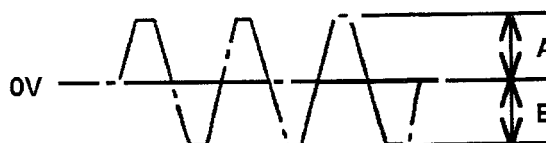
< After Adjustment >



< Before Adjustment >



< After Adjustment >



Spec. $A = B$

7. Adjust the [PB PLL PHASE] so that the random error becomes minimum on the monitor screen.

Note:

The adjustment procedure step 4 to 7 is finished when a picture appears.

8. Repeat EJECT → Cassette Insert → PLAY to confirm that a picture appears exactly.

3-4. PLL Latch Phase Coarse Adjustment (VTR1-PB/VTR2-PB)

BOARD	Digital 1 (VTR1)/Digital 2 (VTR2)
SPEC.	-
TEST	-
ADJUST	C20: PB PLL PHASE
INPUT	-
MODE	PLAY
TAPE	Colour Bar portion of VFM3680KM
M. EQ	TV Monitor

MENU SETTING			
C22	ECC MODE	:	AL OFF
C23	CONCEAL MODE	:	OFF
C24	VITERBI MODE	:	OFF
C25	PB MODE	:	PB H
C26	ERROR MODE	:	FAST
C27	EQ AUTO ADJ	:	STOP
C28	CLOCK NO	:	---

1. Playback a colour bar portion of the alignment tape, and adjust [PB PLL PHASE] so that the error rate on the Error Rate Indicator becomes minimum.
2. If the Error Rate Indicated is still MAX (Red light-up), adjust [PB PLL PHASE] so that the random error on the monitor screen becomes minimum.

3-5. PLL Slice Level Coarse Adjustment (VTR1-PB/VTR2-PB)

BOARD	Digital 1 (VTR1)/Digital 2 (VTR2)
SPEC.	-
TEST	-
ADJUST	C18: PB PLL SLICE
INPUT	-
MODE	PLAY
TAPE	Colour Bar portion of VFM3680KM
M. EQ	TV Monitor

MENU SETTING			
C22	ECC MODE	:	AL OFF
C23	CONCEAL MODE	:	OFF
C24	VITERBI MODE	:	OFF
C25	PB MODE	:	PB H
C26	ERROR MODE	:	FAST
C27	EQ AUTO ADJ	:	STOP
C28	CLOCK NO	:	---

1. Playback a colour bar portion of the alignment tape, and adjust [PB PLL SLICE] so that the error rate on the Error Rate Indicator becomes minimum.
2. If the Error Rate Indicated is still MAX (Red light-up), adjust [PB PLL SLICE] so that the random error becomes minimum on the monitor screen.

3-6. EQ Adjustment (1) (VTR1-PB/VTR2-PB)

BOARD	Digital 1 (VTR1)/Digital 2 (VTR2)
SPEC.	-
TEST	-
ADJUST	C16: PB MAIN DL C15: PB AEQ
INPUT	-
MODE	PLAY
TAPE	Colour Bar portion of VFM3680KM
M. EQ	TV Monitor

MENU SETTING			
C22	ECC MODE	:	AL OFF
C23	CONCEAL MODE	:	OFF
C24	VITERBI MODE	:	OFF
C25	PB MODE	:	PB H
C26	ERROR MODE	:	FAST
C27	EQ AUTO ADJ	:	STOP
C28	CLOCK NO	:	---

1. Playback a colour bar portion of the alignment tape, and adjust [PB MAIN DL] and [PB AEQ] so that the error rate on the Error Rate Indicator becomes minimum.
2. If the Error Rate Indicated is still MAX (Red light-up), adjust [PB MAIN DL] and [PB AEQ] so that the random error becomes minimum.

3-7. EQ Adjustment (2) (VTR1-PB/VTR2-PB)

BOARD	Digital 1 (VTR1)/Digital 2 (VTR2)
SPEC.	-
TEST	-
ADJUST	C11: PB GAIN L C13: PB PHASE L C12: PB GAIN R C14: PB PHASE R
INPUT	-
MODE	PLAY
TAPE	Colour Bar portion of VFM3680KM
M. EQ	Monitor TV

MENU SETTING			
C22	ECC MODE	:	AL OFF
C23	CONCEAL MODE	:	OFF
C24	VITERBI MODE	:	OFF
C25	PB MODE	:	PB H
C26	ERROR MODE	:	FAST
C27	EQ AUTO ADJ	:	STOP
C28	CLOCK NO	:	---

1. Playback a colour bar portion of the alignment tape, and adjust [PB PLL SLICE] so that the error rate on the Error Rate Indicator becomes minimum, following the procedure in below table.

Procedure	Adjust	Error Rate
1	PB GAIN L	VIDEO Lch
2	PB PHASE L	
3	PB GAIN R	VIDEO Rch
4	PB PHASE R	

3-8. PLL Slice Level Fine Adjustment (VTR1-PB/VTR2-PB)

BOARD	Digital 1 (VTR1)/Digital2 (VTR2)
SPEC.	-
TEST	-
ADJUST	C18: PB PLL SLICE
INPUT	-
MODE	PLAY
TAPE	Colour Bar portion of VFM3680KM
M. EQ	Monitor TV

MENU SETTING			
C22	ECC MODE	:	AL OFF
C23	CONCEAL MODE	:	OFF
C24	VITERBI MODE	:	OFF
C25	PB MODE	:	PB H
C26	ERROR MODE	:	FAST
C27	EQ AUTO ADJ	:	STOP
C28	CLOCK NO	:	---

1. Playback a colour bar portion of the alignment tape, and adjust [PB PLL SLICE] so that the error rate on the Error Rate Indicator becomes minimum.

3-9. PLL Latch Phase Fine Adjustment (VTR1-PB/VTR2-PB)

BOARD	Digital 1 (VTR1)/Digital 2 (VTR2)
SPEC.	Error Rate : Less than B at Display
TEST	-
ADJUST	C20: PB PLL PHASE
INPUT	-
MODE	PLAY
TAPE	Colour Bar portion of VFM3680KM
M. EQ	TV Monitor

MENU SETTING			
C22	ECC MODE	:	AL OFF
C23	CONCEAL MODE	:	OFF
C24	VITERBI MODE	:	OFF
C25	PB MODE	:	PB H
C26	ERROR MODE	:	FAST
C27	EQ AUTO ADJ	:	STOP
C28	CLOCK NO	:	---

1. Playback a colour bar of the alignment tape, and adjust [PB PLL PHASE] so that the error rate on the Error Rate Indicator becomes less than B.

3-10. Viterbi Confirmation and Adjustment (VTR1-PB/VTR2-PB)

BOARD	Digital 1 (VTR1)/Digital 2 (VTR2)
SPEC.	Error Rate: Less than 6
TEST	-
ADJUST	VR5601 C28 : CLOCK NO
INPUT	-
MODE	PLAY
TAPE	Colour Bar portion of VFM3680KM
M. EQ	TV Monitor

MENU SETTING			
C22	ECC MODE	:	AL OFF
C23	CONCEAL MODE	:	OFF
C24	VITERBI MODE	:	AUTO
C25	PB MODE	:	PB H
C26	ERROR MODE	:	FAST
C27	EQ AUTO ADJ	:	STOP
C28	CLOCK NO	:	---

1. Set the VITERBI MODE to AUTO in the SERVICE MENU.
2. Playback a colour bar portion of the alignment tape, and confirm that the error rate on the Error Rate Indicator is in the specification.
3. If it is not in the specification, adjust [CLOCK NO] so that the error rate is minimum.
4. If the error rate does not become less than 6, adjust VR5601 to reduce the error..

Note:

If the [CLOCK NO] value become more than 32 during adjustment, set this value to 0 and adjust again.

3-11. Pre-Confirmation and Adjustment (VTR1-RP/VTR2-RP)

BOARD	Digital 1 (VTR1)/Digital 2 (VTR2)
SPEC.	-
TEST	TP5801, TP5201, TP6001, TP5803
ADJUST	VR5210 (Free-run Frequency) C06: RP MAIN DL C05: RP AEQ C08: RP PLL SLICE C10: RP PLL PHASE
INPUT	-
MODE	PLAY
TAPE	Colour Bar Portion of VFM3680KM
M. EQ	TV Monitor, Frequency Counter, Oscilloscope

MENU SETTING			
C22	ECC MODE	:	AL OFF
C23	CONCEAL MODE	:	OFF
C24	VITERBI MODE	:	OFF
C25	PB MODE	:	RP H
C26	ERROR MODE	:	FAST
C27	EQ AUTO ADJ	:	STOP
C28	CLOCK NO	:	---

1. Set the VITERBI MODE to OFF in the SERVICE MENU and set PB MODE to RP H.
2. Playback a colour bar portion of the alignment tape, and confirm that any random error appear regardless of number of the errors.
3. If the picture does not appears on the TV monitor, perform the step 4 to 8.
4. Perform below operation.
“SHTL → STILL → STANDBY OFF”
Adjust VR5210 so that the free-run frequency at TP5801 is $41.85 \pm 0.1\text{MHz}$.
5. In PLAY mode, triggered with TP6002, adjust [RP MAIN DL] and [RP AEQ] so that the waveform at TP5201 is as shown below.
6. Adjust the [RP PLL SLICE] so that the waveform at TP5803 becomes as shown below.

Note:

The input of the scope from TP5803 should be AC IN mode.

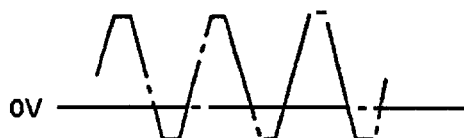
< Before Adjustment >



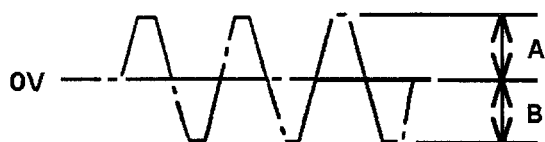
< After Adjustment >



< Before Adjustment >



< After Adjustment >



Spec. $A = B$

3-12. PLL Latch Phase Coarse Adjustment (VTR 1-RP/VTR 2-RP)

BOARD	Digital 1 (VTR1)/Digital 2 (VTR2)
SPEC.	-
TEST	-
ADJUST	C10: RP PLL PHASE
INPUT	-
MODE	PLAY
TAPE	Colour Bar portion of VFM3680KM
M. EQ	TV Monitor

MENU SETTING			
C22	ECC MODE	:	AL OFF
C23	CONCEAL MODE	:	OFF
C24	VITERBI MODE	:	OFF
C25	PB MODE	:	RP H
C26	ERROR MODE	:	FAST
C27	EQ AUTO ADJ	:	STOP
C28	CLOCK NO	:	---

1. Playback a colour bar portion of the alignment tape, and adjust [RP PLL PHASE] so that the error rate on the Error Rate Indicator becomes minimum.
2. If the Error Rate Indicated is still MAX (Red Light-up), adjust [RP PLL PHASE] so that the random error on the monitor screen becomes minimum.

7. Adjust [RP PLL PHASE] so that the random error becomes minimum on the Monitor screen.

Note:

Adjustment procedure step 4 to 7 is finished when the picture appears on the monitor screen.

8. Repeat EJECT → Cassette Insert → PLAY to confirm that the picture appears exactly.

3-13. PLL Slice Level Coarse Adjustment (VTR 1-RP/VTR 2-RP)

BOARD	Digital 1 (VTR1)/Digital 2 (VTR2)
SPEC.	-
TEST	-
ADJUST	C08: RP PLL SLICE
INPUT	-
MODE	PLAY
TAPE	Colour Bar portion of VFM3680KM
M. EQ	TV Monitor

MENU SETTING			
C22	ECC MODE	:	AL OFF
C23	CONCEAL MODE	:	OFF
C24	VITERBI MODE	:	OFF
C25	PB MODE	:	RP H
C26	ERROR MODE	:	FAST
C27	EQ AUTO ADJ	:	STOP
C28	CLOCK NO	:	---

1. Playback a colour bar portion of the alignment tape, and adjust [RP PLL SLICE] so that the error rate on the Error Rate Indicator becomes minimum.
2. If the Error Rate Indicated is still MAX (Red light-up), adjust [RP PLL SLICE] so that the random error on the monitor screen becomes minimum.

3-14. EQ Adjustment (1) (VTR 1-RP/VTR 2-RP)

BOARD	Digital 1 (VTR1)/Digital 2 (VTR2)
SPEC.	-
TEST	-
ADJUST	C06: RP MAIN DL C05: RP AEQ
INPUT	-
MODE	PLAY
TAPE	Colour Bar portion of VFM3680KM
M. EQ	TV Monitor

MENU SETTING			
C22	ECC MODE	:	AL OFF
C23	CONCEAL MODE	:	OFF
C24	VITERBI MODE	:	OFF
C25	PB MODE	:	RP H
C26	ERROR MODE	:	FAST
C27	EQ AUTO ADJ	:	STOP
C28	CLOCK NO	:	---

1. Playback a colour bar portion of the alignment tape, and adjust [RP MAIN DL] and [RP AEQ] so that the error rate on the Error Rate Indicator becomes minimum.
2. If the Error Rate Indicated is still MAX (Red light-up), adjust [RP MAIN DL] and [RP AEQ] so that the random error on the monitor screen becomes minimum.

3-15. EQ Adjustment (2) (VTR 1-RP/VTR 2-RP)

BOARD	Digital 1 (VTR1)/Digital 2 (VTR2)
SPEC.	-
TEST	-
ADJUST	C01: RP GAIN L C03: RP PHASE L C02: RP GAIN R C04: RP PHASE R
INPUT	-
MODE	PLAY
TAPE	Colour Bar portion of VFM3680KM
M. EQ	TV Monitor

MENU SETTING			
C22	ECC MODE	:	AL OFF
C23	CONCEAL MODE	:	OFF
C24	VITERBI MODE	:	OFF
C25	PB MODE	:	RP H
C26	ERROR MODE	:	FAST
C27	EQ AUTO ADJ	:	STOP
C28	CLOCK NO	:	---

1. Playback a colour bar portion of the alignment tape, and perform the adjustment procedure as shown in table below so that the error rate becomes minimum.

Procedure	Adjust	Error Rate
1	RP GAIN L	VIDEO Lch
2	RP PHASE L	
3	RP GAIN R	VIDEO Rch
4	RP PHASE R	

3-16. PLL Slice Level Fine Adjustment (VTR 1-RP/VTR 2-RP)

BOARD	Digital 1 (VTR1)/Digital 2 (VTR2)
SPEC.	-
TEST	-
ADJUST	C08: RP PLL SLICE
INPUT	-
MODE	PLAY
TAPE	Colour Bar portion of VFM3680KM
M. EQ	TV Monitor

MENU SETTING			
C22	ECC MODE	:	AL OFF
C23	CONCEAL MODE	:	OFF
C24	VITERBI MODE	:	OFF
C25	PB MODE	:	RP H
C26	ERROR MODE	:	FAST
C27	EQ AUTO ADJ	:	STOP
C28	CLOCK NO	:	---

1. Playback a colour bar portion of the alignment tape, and adjust [RP PLL SLICE] so that the error rate on the Error Rate Indicator becomes minimum.

3-17. PLL Latch Phase Fine Adjustment (VTR 1-RP/VTR 2-RP)

BOARD	Digital 1 (VTR1)/Digital 2 (VTR2)
SPEC.	Error Rate : Less than B at Display
TEST	-
ADJUST	C10: RP PLL PHASE
INPUT	-
MODE	PLAY
TAPE	Colour Bar portion of VFM3680KM
M. EQ	TV Monitor

MENU SETTING			
C22	ECC MODE	:	AL OFF
C23	CONCEAL MODE	:	OFF
C24	VITERBI MODE	:	OFF
C25	PB MODE	:	RP H
C26	ERROR MODE	:	FAST
C27	EQ AUTO ADJ	:	STOP
C28	CLOCK NO	:	---

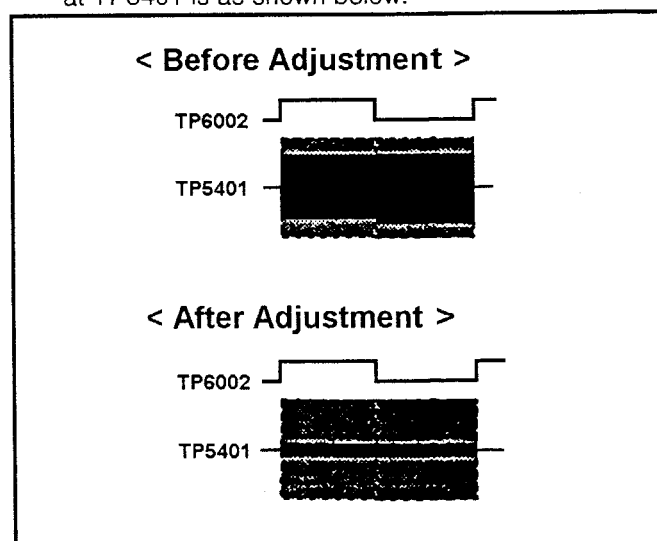
1. Playback a colour bar portion of the alignment tape, and adjust [RP PLL PHASE] so that the error rate on the Error Rate Indicator becomes minimum.

3-18. Pre-Confirmation & Adjustment (VTR 1-DV/VTR 2-DV)

BOARD	Digital 1 (VTR1)/Digital 2 (VTR2)
SPEC.	---
TEST	TP5401, TP6002, TP5804
ADJUST	C16: PB MAIN DL C15: PB AEQ C18: PB PLL SLICE C20: PB PLL PHASE
INPUT	-
MODE	PLAY
TAPE	VFM3110EDS (Consumer DV Alignment Tape)
M. EQ	TV Monitor, Oscilloscope

MENU SETTING			
c22	ECC MODE	:	AL OFF
c23	CONCEAL MODE	:	OFF
c24	VITERBI MODE	:	OFF
c25	PB MODE	:	RP H
c26	ERROR MODE	:	FAST
c27	EQ AUTO ADJ	:	STOP

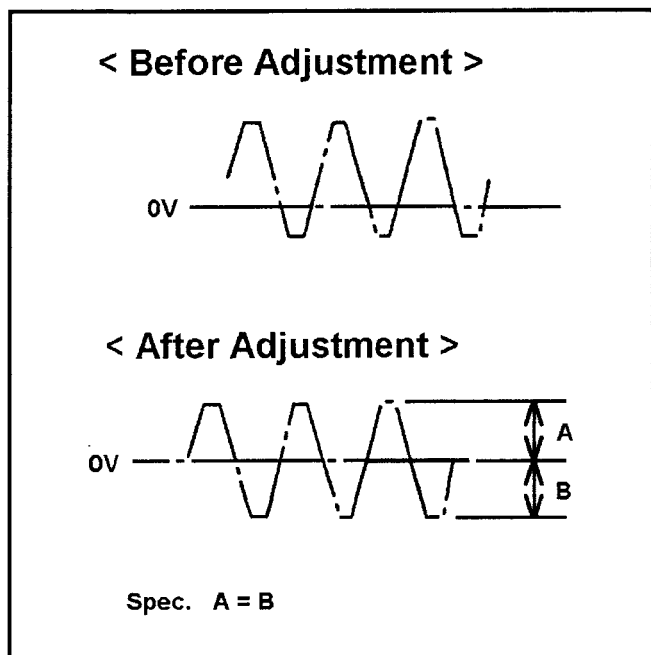
1. In the SERVICE MENU, select "c00: EQ ADJUST (DV)" and set as shown above.
2. Playback a colour bar portion of the alignment tape, and confirm that any random errors appear regardless of number of the errors.
3. If a picture do not appears, perform steps 4 to 7.
4. In PLAY mode, trigger with TP6002, and adjust [PB MAIN DL] and [PB AEQ] so that the waveform at TP5401 is as shown below.



5. Adjust [PB PLL SLICE] so that the waveform is as shown below.

Note:

Input of the scope from TP5804 should be AC IN mode.



6. Adjust [PB PLL PHASE] so that the random error on the monitor screen become minimum.
7. Repeat EJECT → Cassette Insert → PLAY to confirm that a picture appears exactly.

3-19. PLL Latch Phase Coarse Adjustment (VTR 1-DV/VTR 2-DV)

BOARD	Digital 1 (VTR1)/Digital 2 (VTR2)
SPEC.	---
TEST	-
ADJUST	C20: PB PLL PHASE
INPUT	-
MODE	PLAY
TAPE	VFM3110EDS (Consumer DV Alignment Tape)
M. EQ	TV Monitor

MENU SETTING			
c22	ECC MODE	:	AL OFF
c23	CONCEAL MODE	:	OFF
c24	VITERBI MODE	:	OFF
c25	PB MODE	:	RP H
c26	ERROR MODE	:	FAST
c27	EQ AUTO ADJ	:	STOP

1. Playback a colour bar portion of the alignment tape, and adjust [PB PLL PHASE] so that the error rate on the Error Rate Indicator becomes minimum.
2. If the Error Rate Indicated is still MAX (Red light-up), adjust [PB PLL PHASE] so that the random error on the monitor screen becomes minimum.

3-20. PLL Slice Level Coarse Adjustment (VTR 1-DV/VTR 2-DV)

BOARD	Digital 1 (VTR1)/Digital 2 (VTR2)
SPEC.	---
TEST	-
ADJUST	C18: PB PLL SLICE
INPUT	-
MODE	PLAY
TAPE	VFM3110EDS (Consumer DV Alignment Tape)
M. EQ	TV Monitor

MENU SETTING			
c22	ECC MODE	:	AL OFF
c23	CONCEAL MODE	:	OFF
c24	VITERBI MODE	:	OFF
c25	PB MODE	:	RP H
c26	ERROR MODE	:	FAST
c27	EQ AUTO ADJ	:	STOP

1. Playback a colour bar portion of the alignment tape, and adjust [PB PLL SLICE] so that the error rate on the Error Rate Indicator becomes minimum.
2. If the Error Rate Indicated is still MAX (Red light-up), adjust [PB PLL SLICE] so that the random error on the monitor screen becomes minimum.

3-21. EQ Adjustment (1) (VTR 1-DV/VTR 2-DV)

BOARD	Digital 1 (VTR1)/Digital 2 (VTR2)
SPEC.	---
TEST	-
ADJUST	C16: PB MAIN DL C15: PB AEQ
INPUT	-
MODE	PLAY
TAPE	VFM3110EDS (Consumer DV Alignment Tape)
M. EQ	TV Monitor

MENU SETTING			
c22	ECC MODE	:	AL OFF
c23	CONCEAL MODE	:	OFF
c24	VITERBI MODE	:	OFF
c25	PB MODE	:	RP H
c26	ERROR MODE	:	FAST
c27	EQ AUTO ADJ	:	STOP

1. Playback a colour bar portion of the alignment tape, and adjust [PB MAIN DL] and [PB AEQ] so that the error rate on the Error Rate Indicator becomes minimum.
2. If the Error Rate Indicated is still MAX (Red light-up), adjust [PB MAIN DL] and [PB AEQ] so that the random error on the monitor screen becomes minimum.

3-22. EQ Adjustment (2) (VTR 1-DV/VTR 2-DV)

BOARD	Digital 1 (VTR1)/Digital 2 (VTR2)
SPEC.	---
TEST	-
ADJUST	C11: PB GAIN L C13: PB PHASE L C12: PB GAIN R C14: PB PHASE R
INPUT	-
MODE	PLAY
TAPE	VFM3110EDS (Consumer DV Alignment Tape)
M. EQ	TV Monitor

MENU SETTING			
c22	ECC MODE	:	AL OFF
c23	CONCEAL MODE	:	OFF
c24	VITERBI MODE	:	OFF
c25	PB MODE	:	RP H
c26	ERROR MODE	:	FAST
c27	EQ AUTO ADJ	:	STOP

- Playback a colour bar portion of the alignment tape on the Error Rate Indicator , and perform the adjustment procedure as shown below so that the Error Rate Indicated becomes minimum.

Procedure	Adjust	Error Rate
1	PB GAIN L	VIDEO Lch
2	PB PHASE L	
3	PB GAIN R	VIDEO Rch
4	PB PHASE R	

3-23. PLL Slice Level Fine Adjustment (VTR 1-DV/VTR 2-DV)

BOARD	Digital 1 (VTR1)/Digital 2 (VTR2)
SPEC.	---
TEST	-
ADJUST	C18: PB PLL SLICE
INPUT	-
MODE	PLAY
TAPE	VFM3110EDS (Consumer DV Alignment Tape)
M. EQ	TV Monitor

MENU SETTING			
c22	ECC MODE	:	AL OFF
c23	CONCEAL MODE	:	OFF
c24	VITERBI MODE	:	OFF
c25	PB MODE	:	RP H
c26	ERROR MODE	:	FAST
c27	EQ AUTO ADJ	:	STOP

- Playback a colour bar portion of the alignment tape, and adjust [PB PLL SLICE] so that the error rate on the Error Rate Indicator becomes minimum.

**3-24. PLL Latch Phase Fine Adjustment
(VTR 1-DV/VTR 2-DV)**

BOARD	Digital 1 (VTR1)/Digital 2 (VTR2)
SPEC.	Error Rate : Less than B at Display
TEST	-
ADJUST	C20: PB PLL PHASE
INPUT	-
MODE	PLAY
TAPE	VFM3110EDS (Consumer DV Alignment Tape)
M. EQ	TV Monitor

MENU SETTING			
c22	ECC MODE	:	AL OFF
c23	CONCEAL MODE	:	OFF
c24	VITERBI MODE	:	OFF
c25	PB MODE	:	RP H
c26	ERROR MODE	:	FAST
c27	EQ AUTO ADJ	:	STOP

1. Playback a colour bar portion of the alignment tape, and adjust [PB PLL PHASE] so that the error rate on the Error Rate Indicator becomes minimum.

**3-25. Viterbi Confirmation and Adjustment
(VTR 1-DV/VTR 2-DV)**

BOARD	Digital 1 (VTR1)/Digital 2 (VTR2)
SPEC.	Error Rate : Less than 6 at Display
TEST	-
ADJUST	---
INPUT	-
MODE	PLAY
TAPE	VFM3110EDS (Consumer DV Alignment Tape)
M. EQ	TV Monitor

MENU SETTING			
c22	ECC MODE	:	AL OFF
c23	CONCEAL MODE	:	OFF
c24	VITERBI MODE	:	ON
c25	PB MODE	:	RP H
c26	ERROR MODE	:	FAST
c27	EQ AUTO ADJ	:	STOP

1. Set the VITERBI MODE to ON in the SERVICE MENU.
2. Playback a colour bar portion of the alignment tape, confirm the error rate on the Error Rate Indicator is in the specification.
3. If it is out of the specification
 - ① Adjust [PB PLL PHASE]
 - ② Adjust [PB PLL SLICE]
4. Return to the master MENU of SERVICE MENU.

3-26. PLL Lock DC Confirmation & Adjustment (VTR 1/VTR 2)

BOARD	Digital 1 (VTR1)/Digital 2 (VTR2)
SPEC.	$0 \pm 0.2V$
TEST	TP33101 (VTR 1)/TP30101 (VTR 2)
ADJUST	VC33151 (VTR1)/VC1 (VTR 2)
INPUT	VIDEO IN: 75% Colour Bar
MODE	EE
TAPE	---
M. EQ	Oscilloscope

1. Confirm that the PLL Lock DC is in the specification, if it is out of the specification, adjust VC33151 (VTR 1)/VC1 (VTR 2) so that the voltage becomes in the specification.

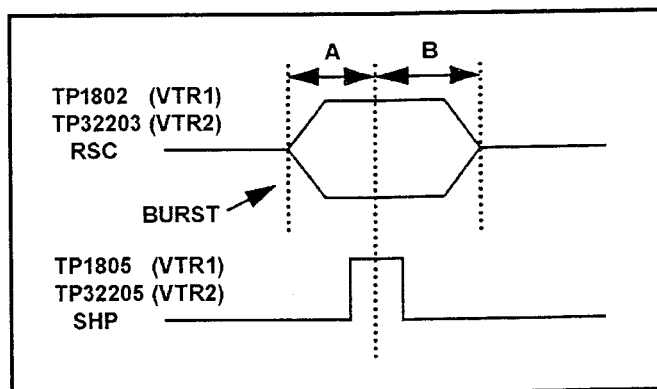
3-27. SG S/H Confirmation & Adjustment (VTR 1/VTR 2)

BOARD	Digital 1 (VTR1)/Digital 2 (VTR2)	
SPEC.	$A=B \pm 10\%$	
TEST	VTR1	VTR2
	TP1802 (RSC)	TP32203 (RSC)
	TP1805 (SHP)	TP32205 (SHP)
ADJUST	VR1801 (VTR 1)/VR32201 (VTR 2)	
INPUT	75% Colour Bar: REF VIDEO IN (VTR 1)/VIDEO IN (VTR 2)	
MODE	EE	
TAPE	---	
M. EQ	Oscilloscope	

1. Adjust VR1801 (VTR 1)/VR32201 (VTR 2) so that the center of SPH pulse at TP1805 (VTR 1)/TP32205 (VTR 2) align with center of the burst signal.
2. Then the phase difference is in the specification.

Test Point and VR Comparison Chart for Digital 1

P. C. Board	Schematic
TP1802	TP34802
TP1805	TP34805
VR1801	VR34801



3-28. 17.7 MHz VCO Adjustment
(VTR 1/VTR 2)

BOARD	Digital 1 (VTR1)/Digital 2 (VTR2)	
SPEC.	17734476 ± 5 Hz	
TEST	VTR1	VTR2
	TP1701	TP32101
ADJUST	VC1901 (VTR 1)/VC32301 (VTR 2)	
INPUT	---	
MODE	EE	
TAPE	---	
M. EQ	Frequency Counter	

1. Connect the frequency counter to TP1701 (VTR 1)/TP32101 (VTR 2), and adjust VC34901 (VTR 1)/VC32301 (VTR 2) so that the frequency becomes 17734476 Hz ± 5 Hz.

Test Point and VR Comparison Chart for Digital 1

P. C. Board	Schematic
TP1701	TP34701
VC1901	VC34901

3-29. REF SCH Adjustment
(VTR 1/VTR 2)

BOARD	Digital 1 (VTR1)/Digital 2 (VTR2)	
SPEC.	A=B ± 10%	
TEST	VTR1	VTR2
	TP1701 TP1702	TP32101 TP32102
ADJUST	VR1802 (VTR 1)/VR32202 (VTR 2)	
INPUT	REF VIDEO IN: 75% Colour Bar	
MODE	EE	
TAPE	--	
M. EQ	Oscilloscope	

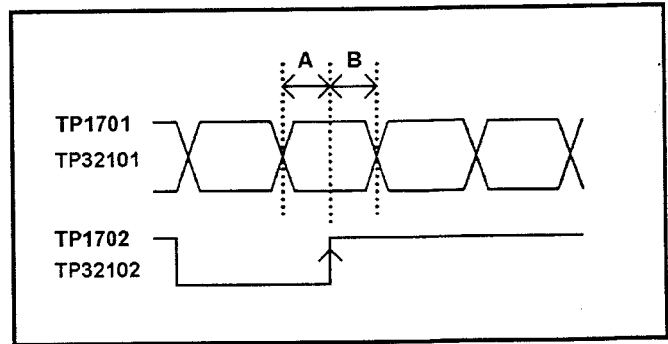
1. Adjust VR1802 (VTR 1)/VR32202 (VTR 2) so that the rising edge of TP1702 (VTR 1)/TP32102 align with Center of SC at TP1701 (VTR 1)/TP32101 (VTR 2).

Note:

SCH of input video signal and REF video signal are both 0°

Test Point and VR Comparison Chart for Digital 1

P. C. Board	Schematic
TP1701	TP34701
TP1702	TP34702
VR1802	VR34802



3-30. System Sub Carrier Phase Confirmation & Adjustment (VTR 1/VTR 2)

BOARD	Digital 1 (VTR1)/Digital 2 (VTR2)
SPEC.	$0 \pm 1^\circ$
TEST	PB OUT (VTR1)/VIDEO OUT (VTR2)
ADJUST	VR1901 (VTR 1)/VR32301 (VTR 2)
INPUT	REF VIDEO IN: 75% Colour Bar
MODE	EE
TAPE	-
M. EQ	SCH Meter

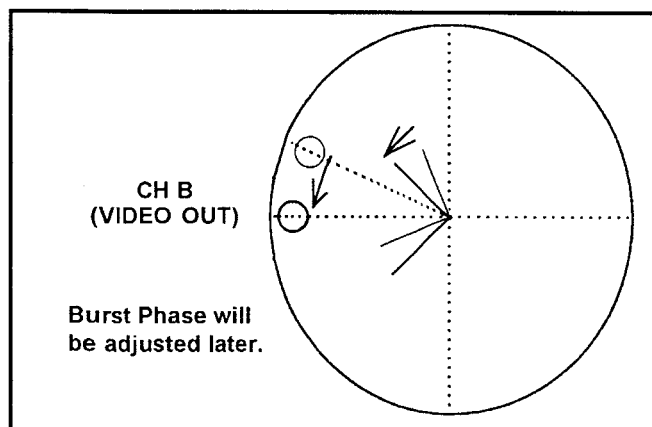
1. Confirm that the phase of System Sub Carrier (CH B) is in the specification.
2. If it is out of the specification, adjust VR1901 (VTR 1)/VR32301 (VTR 2) so that the phase of System Sub Carrier is in the specification.

Note:

Before confirmation and adjustment, observe the REF VIDEO IN (CH A) with the EXT REF, adjust the display position of SCH.

VR Comparison Chart for Digital 1

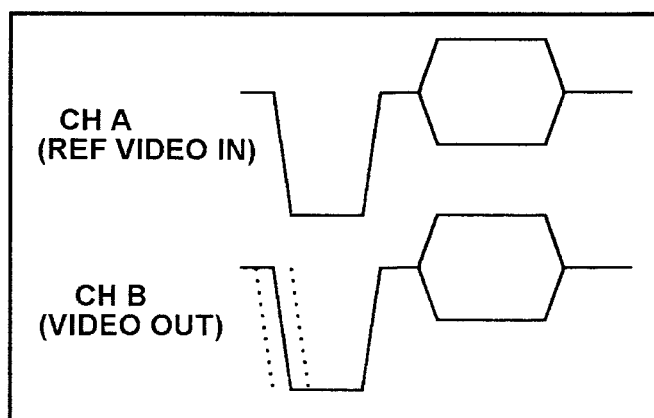
P. C. Board	Schematic
VR1901	VR34901



3-31. System H Phase Confirmation & Adjustment (VTR 1/VTR 2)

BOARD	Digital 1 (VTR1)/Digital 2 (VTR2)
SPEC.	less than ± 74 nsec
TEST	REF VIDEO IN (CH A) PB OUT (VTR1) VIDEO OUT (VTR2)
ADJUST	VR1702(VTR1) / VR32102(VTR2)
INPUT	REF VIDEO IN: 75% Colour Bar
MODE	EE
TAPE	-
M. EQ	WFM Monitor

1. Set the WFM Monitor to EXT REF.
2. Confirm that the phase difference between CH A and CH B is in the specification.



Note:

If the phase difference between CH A and CH B is out of the specification, adjust Side Encoder VR and System H so that it becomes in the specification. If it is not becomes in the specification, adjust VR1702 (VTR 1)/VR32102 (VTR 2)

1. Adjust VR1702 (VTR 1)/VR32102 (VTR 2) so that the VIDEO OUT H Sync phase position is as close as that the REF IN H Sync phase position by selecting the WFM input REF IN and VIDEO OUT alternately.

VR Comparison Chart for Digital 1

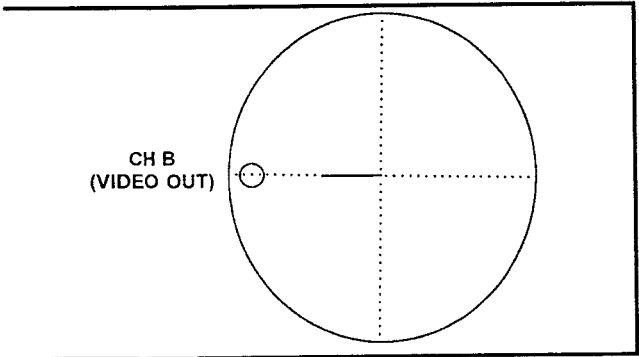
P. C. Board	Schematic
VR1702	VR34702

3-32. Burst Phase Confirmation & Adjustment (VTR1/VTR2)

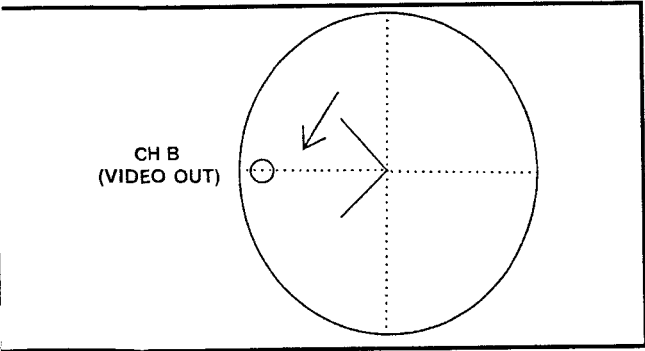
BOARD	Digital 1 (VTR1)/Digital 2 (VTR2)
SPEC.	$0 \pm 1^{\circ}$
TEST	REF VIDEO IN (CH A) VIDEO OUT (CH B)
ADJUST	VR1803 (VTR1) / VR32204 (VTR2) SCH(VIDEO ADJ MENU)
INPUT	REF VIDEO IN: 75% Colour Bar
MODE	PLAY, EE
TAPE	Component Colour Bar VFM3680KM (7 min to 14 min)
M. EQ	SCH Meter

1. Confirm that the phase of the SYSTEM SUB CARRIER of CH B align to the BURST.

Note:
Observe the CH A (REF VIDEO IN) with EXT REF, adjust the display position of SCH.



2. If the phase of SYSTEM SUB CARRIER does not align with the BURST PHASE, adjust VR1803 (VTR1)/VR32204 (VTR2) and SCH(D14) so that the BURST PHASE at CH B is in the specification.



VR Comparison Chart for Digital 1

P. C. Board	Schematic
VR1803	VR34

3-33. Video Position Adjustment (VTR1/VTR2)

BOARD	Digital 1 (VTR1)/Digital 2 (VTR2)
SPEC.	CH A and CH B are nearest position
TEST	REF VIDEO IN PB OUT (VTR1) VIDEO OUT (VTR2)
ADJUST	VR1902 (VTR1) / VR32302 (VTR2)
INPUT	REF VIDEO IN: 75% Colour Bar
MODE	PLAY
TAPE	Colour Bar Portion of VFM3680KM
M. EQ	WFM Monitor

1. Playback the Colour Bar portion of the alignment tape.
2. Adjust VR1902 (VTR1)/VR32302 (VTR2) so that the video positions of CH A and CH B are nearest position.

VR Comparison Chart for Digital 1

P. C. Board	Schematic
VR1902	VR34902

3-34. VCO Free-run Frequency Adjustment (VTR1/VTR2)

BOARD	Digital 1 (VTR1)/Digital 2 (VTR2)
SPEC.	41.85 ± 0.1MHz
TEST	TP5801, TP5802
ADJUST	VR5210, VR5410
INPUT	---
MODE	SHTL→STILL→STANDBY OFF
TAPE	Work Tape
M. EQ	Frequency Counter

1. Insert the alignment tape, and change the mode to SHTL→STILL→STANDBY OFF.
2. Adjust VR5210 so that the frequency at TP5801 is in the specification.
3. Adjust VR5410 so that the frequency at TP5802 is in the specification.

3-35. Error Rate Indicator Confirmation & Adjustment (VTR1/VTR2)

BOARD	Digital 1 (VTR1)/Digital 2 (VTR2)
SPEC.	---
TEST	Error Rate indicator
ADJUST	VR5601
INPUT	---
MODE	PLAY
TAPE	Colour Bar portion of VFM3680KM
M. EQ	TV Monitor

1. Playback the colour bar portion of the alignment tape, and confirm that a picture is appeared on the monitor screen.
2. Press the 3 keys [V1/IN] [V1/OUT] [V2/IN] at same time, then confirm that the error indication is not MAX (Red light-up).
3. If the indication is MAX, adjust VR5601 so that the red indication is off.

3-36. PLL Lock VC Level Adjustment (VTR1/VTR2)

BOARD	Digital 1 (VTR1)/Digital 2 (VTR2)
SPEC.	$0.0 \pm 0.2V$
TEST	TP33101 (VTR1)/TP30101 (VTR2)
ADJUST	VC33151 (VTR1) VC1 (VTR2)
INPUT	---
MODE	EE
TAPE	---
M. EQ	Oscilloscope

1. Adjust VC33151 (VTR1)/VC1 (VTR2) so that the DC voltage at TP33101 (VTR1)/TP30101 (VTR2) is in the specification.

Note:

After this PLL Lock VC Level Adjustment, once put off the power, and again put on the power.

3-37. Audio VCO Center Frequency Adjustment (VTR1/VTR2)

BOARD	Digital 1 (VTR1)/Digital 2 (VTR2)	
SPEC.	1: $48.00 \pm 0.01\text{kHz}$ 2: $44.10 \pm 0.01\text{kHz}$ 3: $32.00 \pm 0.01\text{kHz}$	
TEST	TP33301 (VTR1) <DCK> land (VTR2)	
ADJUST	VTR1	VTR2
	VR33301	VR30801
	VR33302	VR30802
	VR33303	VR30803
INPUT	VIDEO IN: 75% Colour Bar	
MODE	EJECT	
TAPE	---	
M. EQ	Frequency Counter	

1. Open the Service Menu, and set E10: AUD VCO CHK as below.
2. Make the setting value of E10: AUD VCO CHK to 1: 48kHz, and adjust VR33301 (VTR1)/VR30801 (VTR2) so that the frequency is $48.00 \pm 0.01\text{kHz}$.
3. Make the setting value of E10: AUD VCO CHK to 2: 44kHz, and adjust VR33303 (VTR1)/VR30803 (VTR2) so that the frequency is $44.10 \pm 0.01\text{kHz}$.
4. Make the setting value of E10: AUD VCO CHK to 3: 32kHz and adjust VR33302 (VTR1)/VR30802 (VTR2) so that the frequency is $32.00 \pm 0.01\text{kHz}$.
5. Set the E10: AUD VCO CHK to 0: OFF to reset.

4. RF Amp

4-1. Playback Sub Adjustment (PB) (VTR1/VTR2)

BOARD	RF Amp
SPEC.	Error Rate: less than 6
TEST	---
ADJUST	B07: PB PHASE L B08: PB PHASE R
INPUT	---
MODE	PLAY
TAPE	Colour Bar Portion VFM3680KM
M. EQ	---

MENU SETTING			
C22	ECC MODE	:	AL OFF
C23	CONCEAL MODE	:	OFF
C24	VITERBI MODE	:	ON
C25	PB MODE	:	PB H
C26	ERROR MODE	:	FAST
C27	EQ AUTO ADJ	:	STOP
C28	CLOCK NO	:	---

Note:

In the EQ adjustments, if the PB side error rate is out of the specification, perform this adjustment.

1. In the SERVICE MENU, select "C00: EQ ADJUSTMENT" and set the menu as above, and after returned it to Master Menu once, select "B00: RF ADJUST".
2. Playback a colour bar portion of the alignment tape, adjust B07 [PB PHASE L] and B08 [PB PHASE R] so that the error rate indication becomes minimum.

4-2. Playback Sub Adjustment (RP) (VTR1/VTR2)

BOARD	RF Amp
SPEC.	Error Rate: less than B
TEST	---
ADJUST	B05: RP PHASE L B06: RP PHASE R
INPUT	---
MODE	PLAY
TAPE	Colour Bar Portion VFM3680KM
M. EQ	---

MENU SETTING			
C22	ECC MODE	:	AL OFF
C23	CONCEAL MODE	:	OFF
C24	VITERBI MODE	:	ON
C25	PB MODE	:	RP H
C26	ERROR MODE	:	FAST
C27	EQ AUTO ADJ	:	STOP
C28	CLOCK NO	:	---

Note:

In the EQ Adjustments, if the RP side error rate is out of the specification, perform this adjustment.

1. In the SERVICE MENU, select "C00: EQ ADJUST" and set the menu as above, and after returned it to Master Menu once, select "B00: RF ADJUST".
2. Playback a colour bar portion of the alignment tape, adjust B05 [RP PHASE L] and B06 [RP PHASE R] so that the error rate indication becomes minimum.

4-3. Playback Sub Adjustment (DV) (VTR1/VTR2)

BOARD	RF Amp
SPEC.	Error Rate: less than 6
TEST	---
ADJUST	b05: RP PHASE L b06: RP PHASE R
INPUT	---
MODE	PLAY
TAPE	VFM3110EDS (Consumer DV Alignment Tape)
M. EQ	---

MENU SETTING			
C22	ECC MODE	:	AL OFF
C23	CONCEAL MODE	:	OFF
C24	VITERBI MODE	:	ON
C25	PB MODE	:	RP H
C26	ERROR MODE	:	FAST
C27	EQ AUTO ADJ	:	STOP

Note:

In the EQ Adjustments, if the RP side error rate is out of the specification, perform this adjustment.

1. In the SERVICE MENU, select "c00: EQ ADJUST (DV)" and set the menu as above, and after returned it to Master Menu once, select b00; RF ADJUST (DV).
2. Playback a colour bar portion of the alignment tape, adjust B05 [RP PHASE L] and B06 [RP PHASE R] so that the error rate indication becomes minimum.

4-4. REC Current and REC Frequency Characteristic Adjustment (VTR1/VTR2)

BOARD	RF Amp
SPEC.	-4 ± 0.5 dB, Error Rate = less than 6
TEST	TP5601, TG501
ADJUST	B01: REC CURR L B02: REC CURR R B03: REC FREQ L B04: REC FREQ R
INPUT	75% Colour Bar
MODE	PLAY, REC/PLAY
TAPE	Colour Bar Portion VFM3680KM Work Tape
M. EQ	Spectrum Analyzer

MENU SETTING			
C22	ECC MODE	:	AL ON
C23	CONCEAL MODE	:	OFF
C24	VITERBI MODE	:	ON
C25	PB MODE	:	RP H
C26	ERROR MODE	:	FAST
C27	EQ AUTO ADJ	:	STOP
C28	CLOCK NO	:	---

1. Playback a colour bar portion of the alignment tape and put the output from TP5601 to the spectrum analyzer and memorize the spectrum.
2. Eject the alignment tape and insert a work tape for REC/PB and record a colour bar 75% signal, then adjust B01 [REC CURR L] (Lch) and B02 [REC CURR R] (Rch) so that the level at 5MHz portion of the spectrum becomes in the specification per the spectrum of the alignment tape playback.
3. Continue recording still more, adjust B03 [RE FREQ L] (Lch) and B04 [REC FREQ R] (Rch) so that level of the spectrum at 20MHz portion of TP5601 becomes maximum.
4. Continue recording, adjust B01 [REC CURR L] (Lch) and B02 [REC CURR R] (Rch) so that level of the spectrum at 5MHz portion of TP5601 becomes as the same level of the spectrum of the alignment tape playback.
5. After above adjustment, continue recording for approximately 1 minute.
6. In SERVICE MENU, select C00: EQ ADJUST and set as below.

MENU SETTING			
C22	ECC MODE	:	AL ON
C23	CONCEAL MODE	:	ON
C24	VITERBI MODE	:	ON
C25	PB MODE	:	PB H
C26	ERROR MODE	:	FAST
C27	EQ AUTO ADJ	:	STOP
C28	DEFAULT	:	---

7. Playback the recorded portion in step 5, confirm that the error rate indication is less than 6.
8. Close the SERVICE MENU.

■ ITEM PARAMETER

REF. LEVEL	-25dB
ATT	10dB
DIV	5dB/DIV
START FREQUENCY	0KHz
STOP FREQUENCY	40MHz
RES BW	1MHz
VBW	3KHz
SWEEP	300msec
TRIGGER	EXT (HEAD SW)

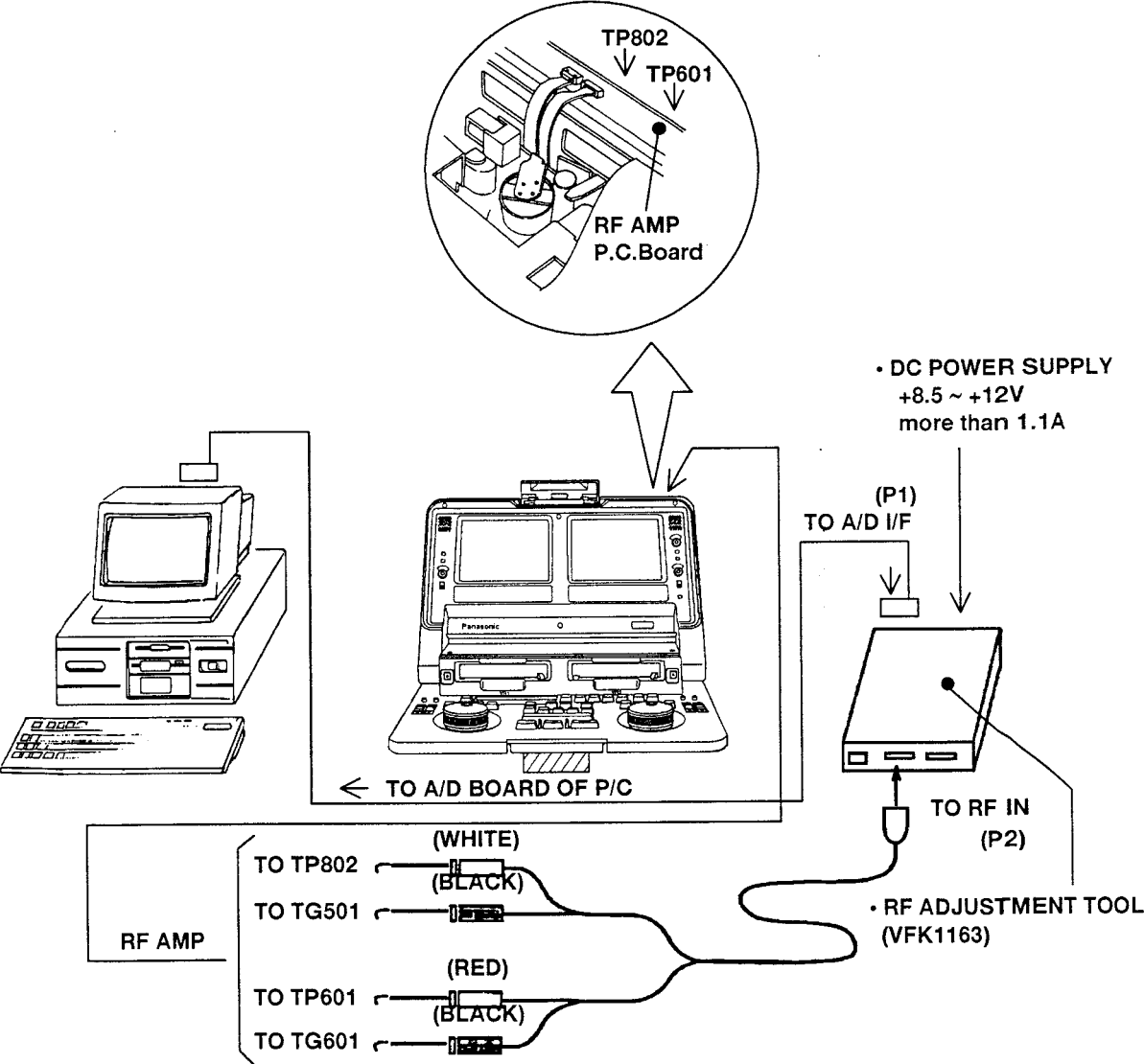
4-4A. REC Current and REC Frequency Characteristic Adjustment
(VTR1/VTR2)(RF Adjustment Tool Use)

< Main Enquire >

No.	Part No.	Name	Remark
1	VFK1163	RF Adjustment Tool	Included Accessory Cable
2	VFK1160A	RF Adjustment Software	More Than Version VFK1160A
3	-----	Personal Computer	IBM Computable (DOS/V)
4	VFK1300	A/D Board	Quatch DAQ-12 (Purchase Locally)
5	-----	AC Adapter	8.5V ~ 12V DC, more than 1.1A

< Connection >

1. Install the A/D board to Personal Computer.
2. Connect the accessory cable of VFK1163 between P1 and A/D board as shown in Figure.
3. Connect the accessory cable (with clip) of VFK1163 between P2 and RF AMP P.C.Board as shown in Figure.



< Program Start Procedures >

1. Set the PC to DOS MODE. Then type DVCRF and RETURN or ENTRY Key.
Note: This program can operate on MS-DOS, PC-DOS and Windows 95 full screen DOS mode.
2. Main title is displayed and program loads parameters and SETUP start message appears, then type RETURN or ENTRY key.
3. Please select "(1) AJ-D750" and RETERN/ENTER.

DVCPRO MODEL SELECT
(1) AJ-D750
(2) AJ-D700

InputNo!! or Select by Cursor Key (U/D) and hit RETURN!



4. Please select "Spectrum Analyzer" and RETURN/ENTER.

PROGRAM SELECT
(1) NORMAL
(2) SPECTRUM ANALYZER

InputNo!! or Select by Cursor Key (U/D) and hit RETURN!



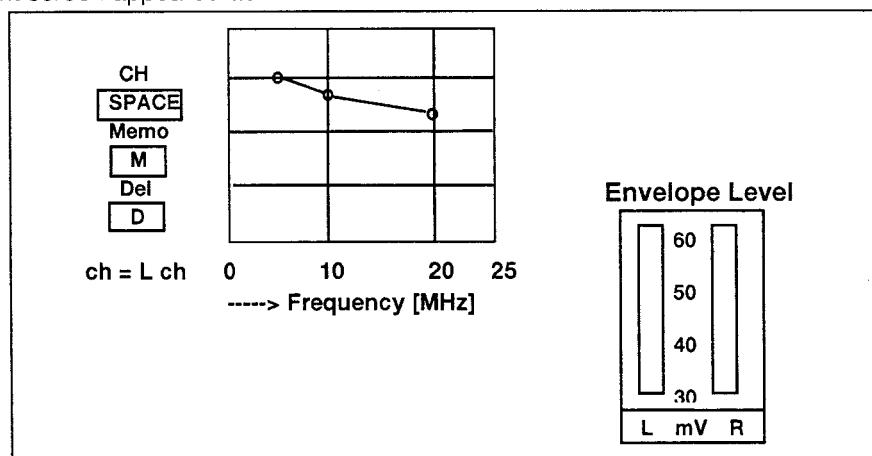
Now Parameter Loading...
Wait a Minute!!



If change the parameter for A/D board, press F2 key. Normally no necessary change the parameter.



5. Measurement screen appeared as indicated as below.



- Select the head channel : "SPACE" key
- Memory the data (Waveform) : "M" key (Displayed light blue colour after stored)
- Clear the data : "D" key

6. How to escape from program

Press "F1" key above display condition, then appear the F1 Menu on the screen. Select the "2. END" and press ENTER, then escape from program.

< Adjustment >

BOARD	RF Amp
SPEC.	-4 ± 0.5 dB, Error Rate = less than 6
TEST	TP5601, TG501
ADJUST	B01: REC CURR L B02: REC CURR R B03: REC FREQ L B04: REC FREQ R
INPUT	VIDEO/Y IN: 100% Colour Bar
MODE	PLAY, REC/PLAY
TAPE	Colour Bar Portion VFM3680KM Work Tape
M. EQ	Spectrum Analyzer

MENU SETTING			
C22	ECC MODE	:	AL ON
C23	CONCEAL MODE	:	OFF
C24	VITERBI MODE	:	ON
C25	PB MODE	:	RP H
C26	ERROR MODE	:	FAST
C27	EQ AUTO ADJ	:	STOP
C28	CLOCK NO	:	---

1. Playback a colour bar portion of the alignment tape.
2. Set the display channel to Lch by P.C. Space Key and press M Key so that the trace is memorized (trace A light blue).
3. Eject the alignment tape and insert a work tape for REC/PB and record a colour bar 75% signal, then adjust B01 [REC CURR L](Lch) so that the level at 5MHz portion becomes -4dB ± 0.5dB per the waveform of the alignment tape playback.
4. Adjust B03 [REC FREQ L](Lch) so that the level at 20MHz portion becomes maximum.

Note: First of all, adjust B03 so that the level at 20MHz set to minimum and increase the level to maximum. (as maximum value is difficult to find, it should be set to before maximum point).

5. Adjust B01 again so that the level at 5MHz portion is same as trace A.
6. Set the display channel to Rch by P.C.Space Key and press M Key so that the trace is memorized (trace A light blue).
7. Eject the alignment tape and insert a work tape for REC/PB and record a colour bar 75% signal, then adjust B02 [REC CURR R](Rch) so that the level at 5MHz portion becomes -4dB ± 0.5dB per the waveform of the alignment tape.

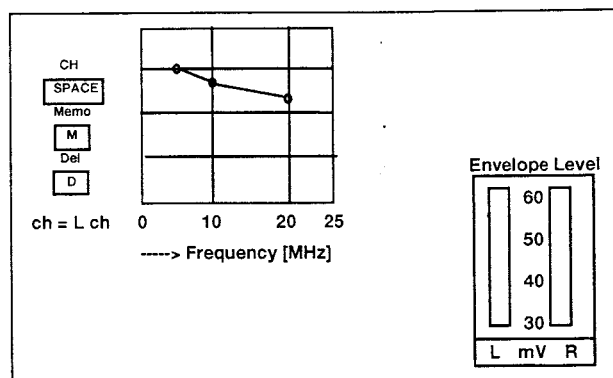
8. Adjust B04 [REC FREQ R](Rch) so that the level at 20MHz portion becomes maximum.

Note: First of all, adjust B04 so that the level at 20MHz set to minimum and increase the level to maximum. (as maximum value is difficult to find, it should be set to before maximum point.)

9. Adjust B02 again so that the level at 5MHz portion is same as trace A.
10. After above adjustment, continue recording approximately 1 minute.
11. In SERVICE MENU, select C00 : EQ ADJUST and set as below.

MENU SETTING			
C22	ECC MODE	:	AL ON
C23	CONCEAL MODE	:	ON
C24	VITERBI MODE	:	ON
C25	PB MODE	:	PB H
C26	ERROR MODE	:	FAST
C27	EQ AUTO ADJ	:	STOP
C28	DEFAULT	:	---

12. Playback the recorded portion in step 10 confirm that the error rate indication is less than 6.
13. Close the SERVICE MENU.

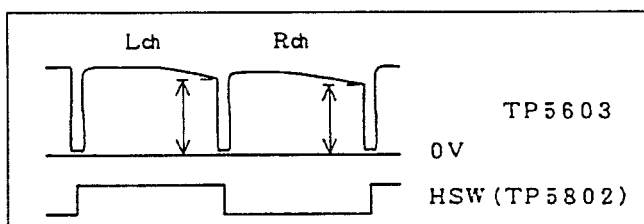


4-5. Envelope Level Confirmation & Adjustment (PB)(VTR1/VTR2)

BOARD	RF AMP
SPEC.	V1, V2 = more than 2.0VDC
TEST	TP5603
ADJUST	B11 : PB MAG L B12 : PB MAG R
INPUT	---
MODE	PLAY
TAPE	Colour Bar Portion VFM3680KM
M. EQ	Oscilloscope

1. Playback a colour bar portion of the alignment tape.
2. Confirm that the envelope level V1 and V2 are in the specification.
3. If it is out of specification, adjust B11 [PB MAG L] and B12 [PB MAG R] so that the envelope level is becomes more than 2.0VDC.

Note: This confirmation should be done before EQ Adjustment.

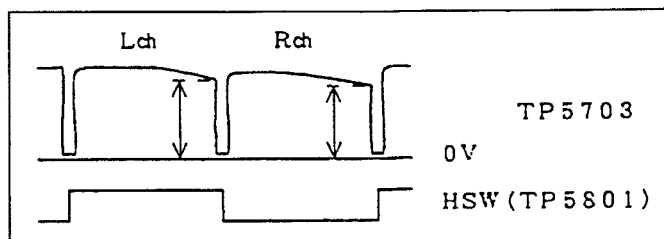


4-6. Envelope Level Confirmation & Adjustment (DV)(VTR1/VTR2)

BOARD	RF AMP
SPEC.	V1, V2 = more than 2.0VDC
TEST	TP5703
ADJUST	b09 : RP MAG L b10 : RP MAG R
INPUT	---
MODE	PLAY
TAPE	(Consumer DV Alignment Tape) VFM3110EDS
M. EQ	Oscilloscope

1. Playback a colour bar portion of the alignment tape.
2. Confirm that the envelope level V1 and V2 are in the specification.
3. If it is out of specification, adjust b09 [RP MAG L] and b10 [RP MAG R] so that the envelope level is becomes more than 2.0VDC.

Note: This confirmation should be done before EQ Adjustment.



5. Analog P.C. Board
(Analog 1: VTR1)
(Analog 2: VTR2)

5-1. Audio Section

5-1-1. Preparation

1. In Eject mode, set as follows.

Front SW	
SPEAKER/HEADPHONES	: V1, V2
SWAP	: NORM
AUDIO MONITOR	: MIX
REMOTE/LOCAL	: LOCAL
INPUT SEL	: EXT
REC, PB VR	: Click portion
Menu	
CH1, CH2 IN LV	: 0dB
CH1, CH2 OUT LV	: 0dB
EMPHASIS	: OFF
STOP MODE	: REC
REC CUE	: CH1+CH2
SHTL AUD	: OFF

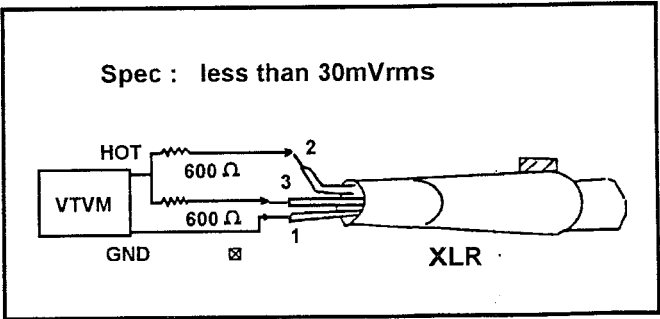
2. Confirm that the switches are as shown below.

Analog 1 P.C. Board	
SW40001 (CH1)	High side
SW40002 (CH2)	High side
Analog 2 P.C. Board	
SW45001 (CH1)	High side
SW45002 (CH2)	High side
LINE/MIC Select SW of Rear Jack	LINE side

5-1-2. Output Balance Adjustment
(VTR1)

BOARD	Analog 1 (VTR1)
SPEC.	less than 30mVrms
TEST	LINE OUT (CH1/CH2), V1 MONITOR OUT
ADJUST	VR40302 (CH1) VR40304 (CH2) VR40902 (MON)
INPUT	---
MODE	PLAY
TAPE	VFM3680KM (1KHz, 0dB)
M. EQ	VTVM, TV Monitor

1. Make the Following tool to measure the output balance.
2. Playback the alignment tape, and connect the following tool to the audio outputs.
3. Monitor the Monitor Out Signal (0dB: 1kHz) with the TV Monitor.
4. Adjust VRs so that the output level becomes less than 30mVrms.

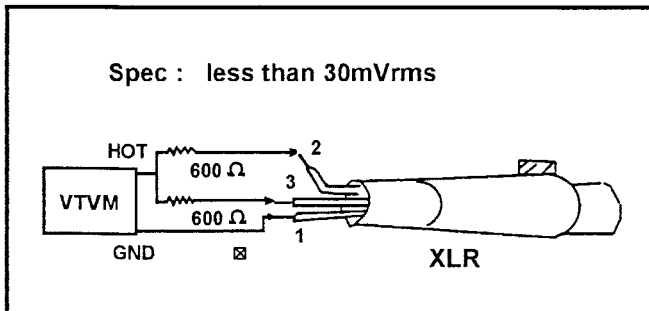


Note:
Perform this adjustment before the Output Level Adjustment.

5-1-3. Output Balance Adjustment (VTR2)

BOARD	Analog 2 (VTR2)
SPEC.	less than 30mVrms
TEST	LINE OUT (CH1/CH2), V2 MONITOR OUT
ADJUST	VR45302 (CH1) VR45304 (CH2) VR40903 (MON) (on Analog 1 P.C.B)
INPUT	LINE IN (CH1, CH2): 0dBu 1kHz sine wave (BAL)
MODE	EJECT
TAPE	---
M. EQ	VTVM, TV Monitor

1. Make the Following tool to measure the output balance.
2. Supply the above signal to the LINE IN.
3. Connect the following tool to each output, and adjust the VRs so that the voltage is less than 30mVrms.



Note:
Perform this adjustment before the Output Level Adjustment.

5-1-4. Output Level Adjustment (VTR1/VTR2)

BOARD	Analog1 (VTR1)/Analog 2 (VTR2)	
SPEC.	0dBu \pm 0.2dB	
TEST	CH1, CH2 LINE OUT	
ADJUST	VTR1	VTR2
	VR40201 (CH1)	VR45201 (CH1)
	VR40202 (CH2)	VR45202 (CH2)
INPUT	-	
MODE	PLAY	
TAPE	VFM3680KM : 1KHz 0dB	
M. EQ	VTVM, TV Monitor	

1. Playback the alignment tape and adjust VR40201 (VTR1-CH1)/VR40202 (VTR1-CH2) and VR45201 (VTR2-CH1)/VR45202 (VTR2-CH2) so that the LINE OUT level is in the specification..

Note:
PB VR should be in click portion.

5-1-5. Input Level Adjustment (VTR1)

BOARD	Analog 1 (VTR1)
SPEC.	-18.4dBu \pm 1.0dB
TEST	TP40004 (CH1), TP40005 (CH2)
ADJUST	VR40001 (CH1) VR40002 (CH2)
INPUT	LINE IN (CH1, CH2): 0dBu 1kHz sine wave (BAL)
MODE	EJECT
TAPE	---
M. EQ	VTVM, TV Monitor

1. Supply the above signal (1kHz, 0dBu).
2. Adjust VR40001 (CH1) so that the voltage at TP40004 (CH1) becomes in the specification.
3. Adjust VR40002 (CH2) so that the voltage at TP40002 (CH2) becomes in the specification.

Note:

REC VR should be in click portion.

5-1-6. Input Level Adjustment (VTR 2)

BOARD	Analog 2 (VTR 2)
SPEC.	0dBu \pm 0.2dB
TEST	LINE OUT (CH1, CH2)
ADJUST	VR45001 (CH1) VR45002 (CH2)
INPUT	LINE IN (CH1, CH2): 0dBu 1kHz sine wave (BAL)
MODE	EJECT
TAPE	---
M. EQ	VTVM, TV Monitor

1. Supply the signal (1kHz, 0dBu) to the LINE IN.
2. Adjust VR45001 (CH1) so that the voltage at LINE OUT (CH1) becomes 0dBu \pm 0.2dB.
3. Adjust VR45002 (CH2) so that the voltage at LINE OUT (CH2) becomes 0dBu \pm 0.2dB.

Note:

REC VR should be in click portion.

5-1-7. Meter Adjustment (VTR1/VTR2)

	VTR1	VTR2
BOARD	Analog 1 (VTR 1)	Analog 2 (VTR 2)
TEST	V1 Level Meter	V2 Level Meter
ADJUST	VR68015 (CH1) VR68016 (CH2) (on the Display control P.C.B)	VR68013 (CH1) VR68014 (CH2) (on the Display control P.C.B)
SPEC	as follows	
INPUT	LINE IN (CH1, CH2): 0dBu 1kHz sine wave (BAL)	
MODE	REC (VTR1), EE (VTR2)	
TAPE	Self Recording Tape	
M. EQ	VTVM, TV Monitor	

(VTR1)

1. Supply the above signal and adjust VR40309 (CH1) and VR40301 (CH2) so that the audio level at TP40303 (CH1) and TP40304 (CH2) are 0.29Vrms.
2. Press the EXT CHECK button and adjust VR68015 (CH1) and VR68016 (CH2) so that the audio level are at the ▼ position.
3. Release the EXT CHECK button and confirm that the audio level is -18dB position.

(VTR2)

1. Supply the above signal and press the EXT CHECK button.
2. Adjust VR45309 (CH1) and VR45310 (CH2) so that the audio level at TP45304 (CH1) and TP45305 (CH2) are 0.29Vrms.
3. Press the EXT CHECK button and adjust VR68013 (CH1) and VR68014 (CH2) so that the audio level are at the ▼ position.
4. Release the EXT CHECK button and confirm that the audio level is -18dB position.

5-1-8. CUE PB Level Adjustment (VTR1/VTR2)

	VTR1	VTR2
BOARD	Analog 1 (VTR 1)	Analog 2 (VTR 2)
TEST	TP40701	TP45701
ADJUST	VR40701	VR45701
SPEC	-12dBu ± 0.5dB	
INPUT	---	
MODE	PLAY	
TAPE	VFM3680KM (1KHz, 0dB)	
M. EQ	VTVM, TV Monitor	

1. Playback the Cue level alignment tape (CUE REF LEVEL: 1kHz, 0dB).
2. Adjust VR40701 (VTR1)/VR45701 (VTR2) so that the level at TP40701 (VTR1)/TP45701 (VTR2) becomes in the specification.

Note:

Set the DOLBY NR to ON in the SERVICE MENU.

5-1-9. CUE Bias Current Adjustment (VTR1/VTR2)

	VTR1	VTR2
BOARD	Analog 1 (VTR 1)	Analog 2 (VTR 2)
TEST	TP40601 TP40602 (GND)	TP45601 TP45602 (GND)
ADJUST	VR40601	VR45601
SPEC	6.5mVrms \pm 0.2mV	
INPUT	---	
MODE	REC	
TAPE	Work Tape	
M. EQ	VTVM, TV Monitor	

1. Connect the Vacuum Tube Volt Meter to TPs.
2. TP40601-TP40602 (GND).....VTR1
3. TP45601-TP45602 (GND).....VTR2
4. Adjust VR40601 (VTR1)/VR45601 (VTR2) so that the level becomes in the specification.

Note:

Set the VTVM mode to FLAT.

5-1-10. CUE REC/PB Level Adjustment (VTR1/VTR2)

	VTR1	VTR2
BOARD	Analog 1 (VTR 1)	Analog 2 (VTR 2)
TEST	TP40701, TP40603 Cue Out of Studio Model	TP45701. TP45603 Cue Out of Studio Model
ADJUST	VR40602	VR45602
SPEC	-12dBu \pm 0.5dB	
INPUT	LINE IN (CH1, CH2): 0dBu 1kHz sine wave (BAL)	
MODE	Self REC and PB	
TAPE	Work Tape	
M. EQ	VTVM, TV Monitor	

1. Make a self record and playback the above signal and measure the audio level at TP40701 (VTR1), TP45701 (VTR2).
2. Confirm the level difference between TP40701 (VTR1), TP45701 (VTR2) and -12dBu.
3. Adjust VR40602 (VTR1), VR45602 (VTR2) to compensate above level difference at TP40603 (VTR1), TP45603 (VTR2).
4. Make a self recording and playback.
5. Confirm that the audio level at TP40701 (VTR1), TP45701 (VTR2) is in the specification.
6. After adjustment, record above signal for a few minutes and playback by studio model so that the cue out of studio model is 0dBu \pm 2dB.

5-1-11. Meter Output Level Adjustment (VTR1/VTR2)

	VTR1	VTR2
BOARD	Analog 1 (VTR 1)	Analog 2 (VTR 2)
TEST	TP40303 (CH1) TP40304 (CH2)	TP45304 (CH1) TP45305 (CH2)
ADJUST	VR40309 (CH1) VR40310 (CH2)	VR45309 (CH1) VR45310 (CH2)
SPEC	0.29mVrms \pm 0.01	
INPUT	LINE IN (CH1, CH2): 0dBu 1kHz sine wave (BAL)	
MODE	---	
TAPE	---	
M. EQ	VTVM, TV Monitor	

1. Supply the above signal, and connect the VTVM to above TPs.

TP40303 (CH1), TP40304 (CH2).....VTR1

TP45304 (CH1), TP45305 (CH2).....VTR2

2. In EXT CHECK (Fine Mode), adjust VR40309 (VTR1-CH1), VR40310 (VTR1-CH2) VR45309 (VTR2-CH1), VR45310 (VTR2-CH2) so that the level becomes in the specification.

5-1-12. BEEP Sound Adjustment (VTR 2)

BOARD	Analog 2 (VTR 2)
SPEC.	4.0kHz \pm 0.1KHz, 30mVrms \pm 1
TEST	TP45212
ADJUST	VR45203, VR45204
INPUT	---
MODE	---
TAPE	---
M. EQ	Frequency Counter, VTVM

1. Adjust VR45203 so that the frequency at TP45212 is 4.0kHz \pm 20Hz.
2. Adjust VR45204 so that the voltage at TP45212 is 30mVrms \pm 1.

5-2. Video Section

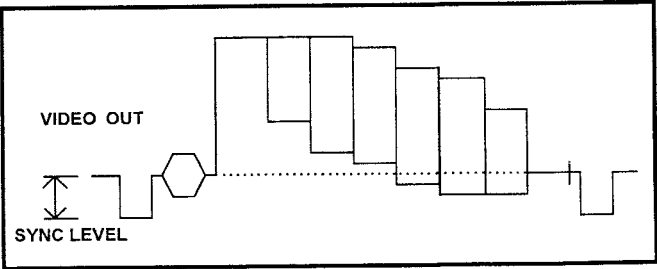
5-2-1. Preparation

- Unless specially designation, in Analog 1 Adjustment, use the Input Connector, Output Connector and Encoder VR of VTR1.
- In Analog 2 Adjustment, use that of VTR2.
- Encoder VRs (VIDEO , BLACK, and CHROMA LEVEL , CHROMA PHASE) should be in center click portion.
- Adjust after about 10 minutes warm up.
- Colour bar signal should be 100% with 7.5 IRE SET UP.
- Set the OPERATION MODE to SEPARATE and SYNCHRO MODE to CF.

5-2-2. Sync Level Confirmation & Adjustment (VTR1)

BOARD	Analog 1
SPEC.	0.3V \pm 1%
TEST	Video Out
ADJUST	VR7006
INPUT	---
MODE	PLAY
TAPE	Colour Bar Portion of VFM3680KM
M. EQ	WFM Monitor

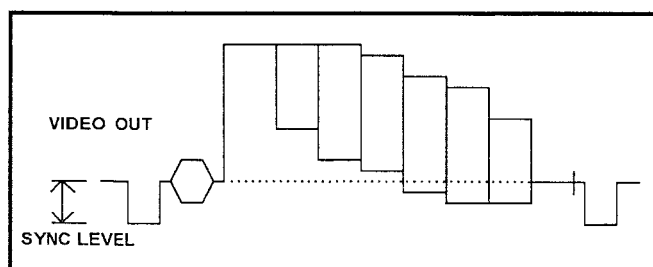
- Set the item "V OUT SEL" to CMPNT on the SYSTEM SET UP menu.
- Confirm that the sync level is 0.3V \pm 1%. If it is out of the specification, adjust VR7006 so that the sync level becomes 0.3V \pm 1%.



5-2-3. Sync Level Confirmation & Adjustment (VTR2)

BOARD	Analog 2
SPEC.	0.3V \pm 1%
TEST	Video Out
ADJUST	VR7006
INPUT	---
MODE	PLAY
TAPE	Colour Bar Portion of VFM3680KM
M. EQ	WFM Monitor

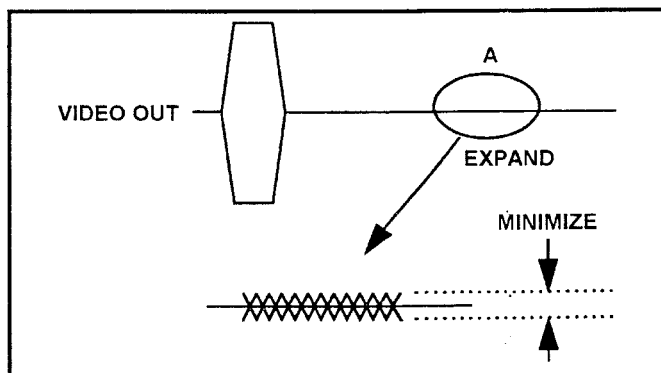
1. Set the item "V OUT SEL" to CMPNT on the SYSTEM SET UP menu.
2. Confirm that the sync level is 0.3V \pm 1%, if it is out of specification, adjust VR7006 so that the sync level is 0.3V \pm 1%.



5-2-4. Carrier Balance Adjustment (VTR1/VTR2)

BOARD	Analog 1 (VTR1)/Analog 2 (VTR2)
SPEC.	Less than 6mVp-p
TEST	Video Out / Y Out
ADJUST	PB BAL PR BAL
INPUT	---
MODE	PLAY
TAPE	PULSE & BAR VFM3680KM (22 to 26 min)
M. EQ	WFM Monitor

1. Set the item "V OUT SEL" to CMPST on the SYSTEM SET UP menu.
2. Use the WFM Monitor in signal line sweep, set the chroma filter to ON and rise the gain full.
3. Adjust PR BAL and PB BAL so that the level of carrier leak is minimum as shown below.
4. If it can not adjust by EVR, adjust VR7208(PB) and VR7206(PR) on the P.C.Board.



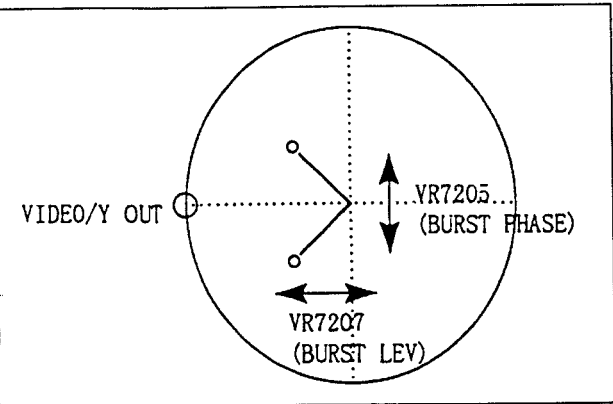
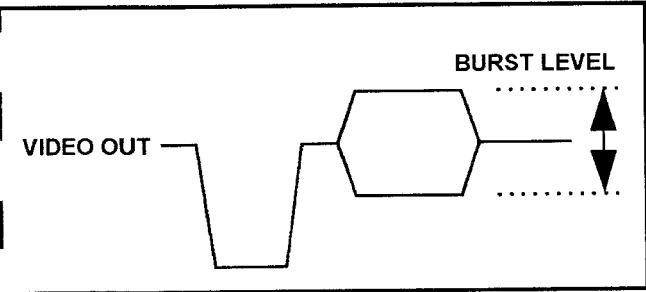
Note:

Set the time axis to MAG and adjust.

5-2-5. Burst Level Confirmation & Adjustment] (VTR1/VTR2)

BOARD	Analog 1 (VTR1)/Analog 2 (VTR2)
SPEC.	0.3V ± 2%
TEST	Video/Y Out
ADJUST	VR7207 (BURST LEV), VR7205 (BURST PHASE)
INPUT	---
MODE	PLAY
TAPE	Colour Bar Portion of VFM3680KM
M. EQ	WFM Monitor

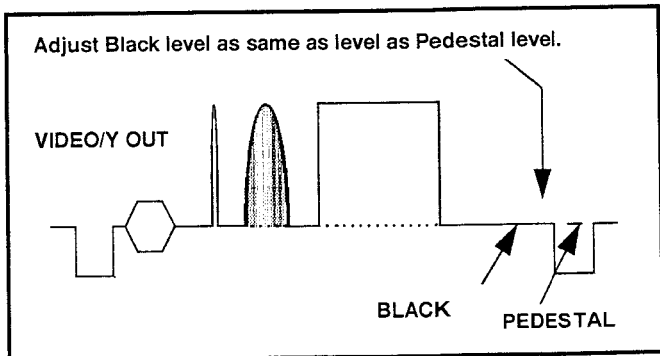
1. Set the item "V OUT SEL" to CMPST on the SYSTEM SET UP menu.
2. Confirm that the burst level is 0.3V ± 2%. If it is out of specification, adjust VR7207 so that the burst level becomes 0.3V ± 2%.
3. Confirm that the burst position on the Vector Scope at correct position.If it is not, adjust VR7205 so that the burst phase becomes correct position.



5-2-6. Composite Black Level Confirmation & Adjustment (VTR1/VTR2)

BOARD	Analog 1 (VTR1)/Analog 2 (VTR2)
SPEC.	Black level = Pedestal level ±.7 mv
TEST	Video Out / Y Out
ADJUST	VR7004
INPUT	---
MODE	PLAY
TAPE	PULSE & BAR VFM3680KM (22 to 26 min)
M. EQ	WFM Monitor

1. Set the V OUT SEL to CMPST on the SYSTEM SET UP menu.
2. Confirm that the black level align with the pedestal level (±7 mv). If it is out of specification, adjust VR7004 so that the black level is Pedestal level ±7 mv.



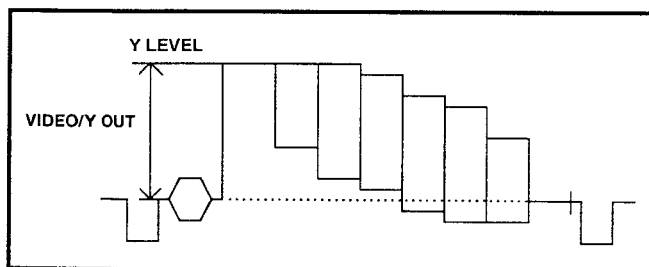
Note:
The Black Level VR on the Side Panel should be in center click portion.

Note:
As this signal has some carrier leak and noise etc, set the Y Filter switch to ON and rise the gain.

5-2-7. Composite Y Level Adjustment (VTR1/VTR2)

BOARD	Analog 1 (VTR1)/Analog 2 (VTR2)
SPEC.	0.7V \pm 2%
TEST	Video Out / Y Out
ADJUST	(VIDEO ADJUST) V LEV OFST
INPUT	---
MODE	PLAY
TAPE	Colour Bar Portion of VFM3680KM
M. EQ	WFM Monitor

1. Set the item "V OUT SEL" to CMPST on the SYSTEM SET UP menu.
2. Adjust V LEV OFST so that the Y level of the composite video output becomes 0.7V \pm 2%.

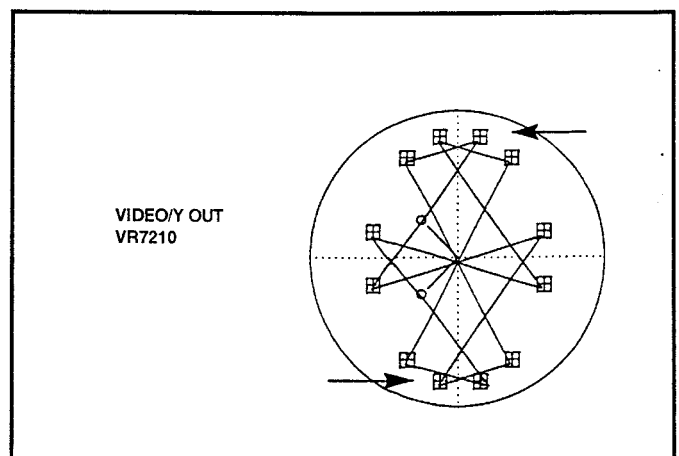


3. If it can not adjust by VIDEO ADJUST MENU, Adjust VR7007 (V LEV OFST) and VR7010 (VIDEO LEV FINE).

5-2-8. Vector Adjustment (VTR1/VTR2)

BOARD	Analog 1 (VTR1)/Analog 2 (VTR2)
SPEC.	Center of the square mark
TEST	Video/Y Out
ADJUST	(VIDEO ADJUST) HUE OFST VR7210 <QUAD> VC7201<PAL PHASE> VR7214 <HUE OFS> VR7204 <ENC BY> VR7202 <ENC RY>
INPUT	---
MODE	PLAY
TAPE	Colour Bar Portion of VFM3680KM
M. EQ	Vector Scope

1. Set the item "V OUT SEL" to CMPST on the SYSTEM SET UP menu.
2. Set the burst position on the Vector Scope at correct position.
3. Adjust HUE OFST so that the vectors are center of the square mark. If those are out of the specification, adjust by VR7210, VR7214, VR7204, VR7202 and VC7201.



4. Adjust the each vector point to the center of the square mark.
VR7210 : Diagonal Direction
VR7214 : Rotary Direction
VR7204 : Horizontal Direction
VR7202 : Vertical Direction

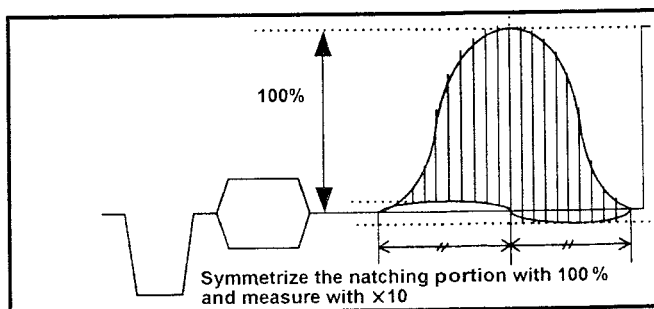
Note:

CHROMA, VIDEO LEVEL and CHROMA PHASE VRs are in center click portion.

5-2-9. Composite YC Timing Confirmation & Adjustment (VTR1/VTR2)

BOARD	Analog 1 (VTR1)/Analog 2 (VTR2)
SPEC.	$0 \pm 10\text{ns}$
TEST	Video/Y Out
ADJUST	VR7215
INPUT	---
MODE	PLAY
TAPE	PULSE & BAR Portion VFM3680KM (22 to 26 min)
M. EQ	WFM Monitor

1. Set the item "V OUT SEL" to CMPST on the SYSTEM SET UP menu.
2. Playback the alignment tape (PULSE & BAR) and symmetric by left and right. If it is not, adjust VR7215 so that the hatching portion becomes symmetric.

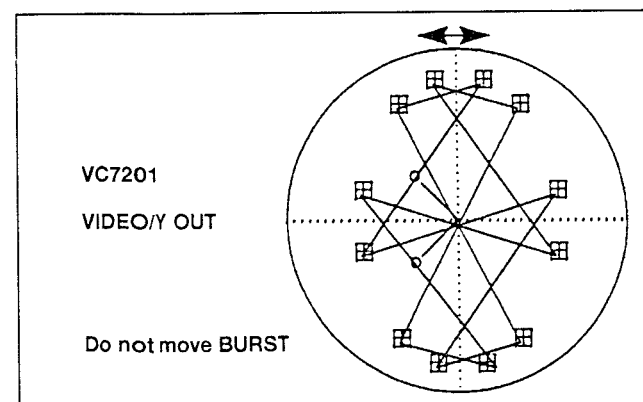
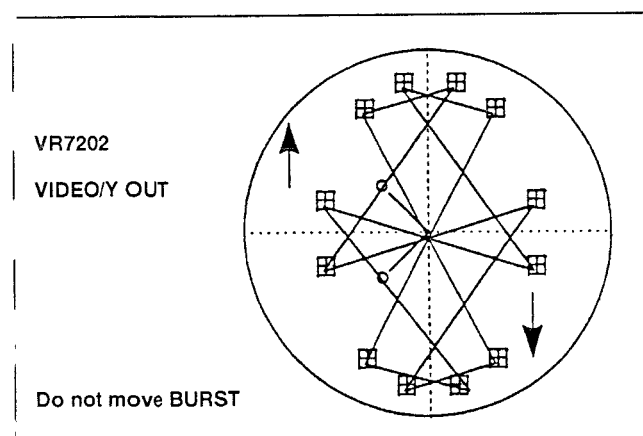
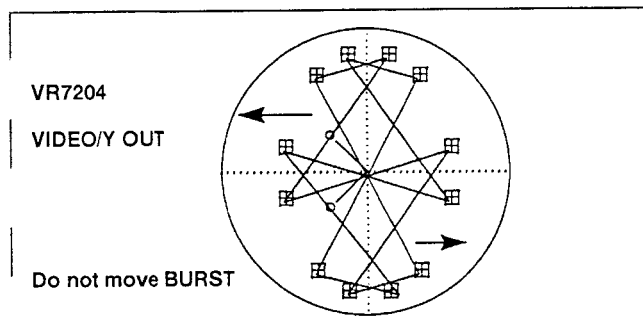
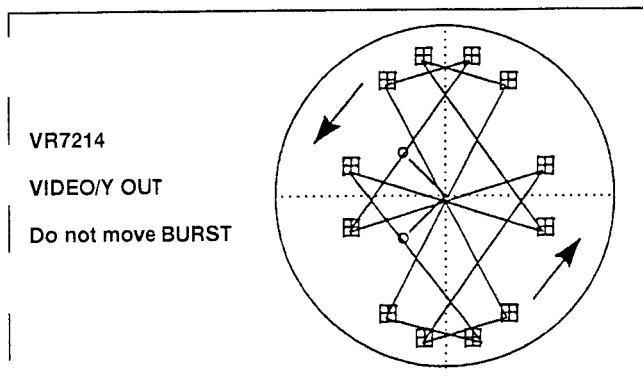


Note:

When adjust it, adjust the chroma level to 100%.

Note:

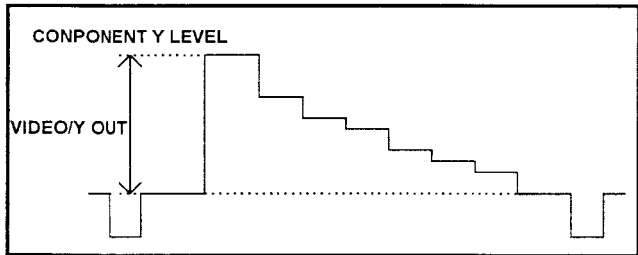
After this adjustment it will change the Pr-Pb Timing, Vector, and SCH. Please re-confirm and readjust the Pr-Pb Timing, Vector and SCH after this adjustment.



**5-2-10 Component Y Level
Confirmation & Adjustment
(VTR1/VTR2)**

BOARD	Analog 1 (VTR1) / Analog 2 (VTR2)
SPEC.	700mV \pm 1%
TEST	Video/Y Out
ADJUST	VR7008
INPUT	---
MODE	PLAY
TAPE	Colour bar portion VFM3680KM (0min to 10min)
M.EQ	WFM Scope

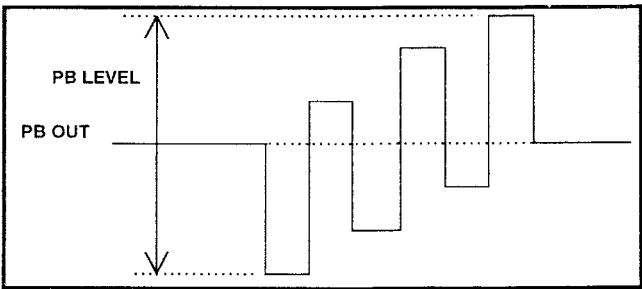
1. Set the item "V OUT SEL" to CMPNT on the SYSTEM SET UP menu.
2. Playback the colour bar portion of the Alignment Tape.
3. Confirm that the Y Level is in the specification,if it is not, adjust VR7008 so that the component Y Level is in the specification.



**5-2-11 Component Pb Level
Confirmation & Adjustment
(VTR1/VTR2)**

BOARD	Analog 1 (VTR1) / Analog 2 (VTR2)
SPEC.	700mV \pm 1%
TEST	PB_OUT
ADJUST	VR7606
INPUT	---
MODE	PLAY
TAPE	Colour bar portion VFM3680KM (0min to 10min)
M.EQ	WFM Monitor

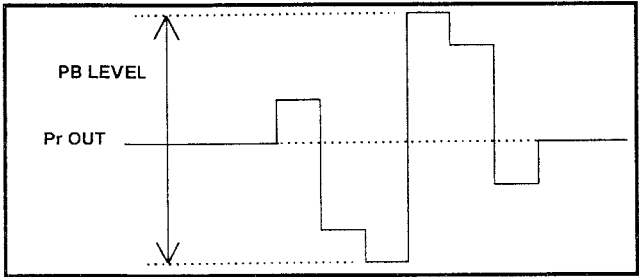
1. Set the item "V OUT SEL" to CMPNT on the SYSTEM SET UP menu.
2. Playback the colour bar portion of the Alignment Tape.
3. Confirm that the Pb level is in the specification, if it is not, adjust VR7606 so that the Pb Level of component out is in the specification.



5-2-12 **Component Pr Level
Confirmation & Adjustment
(VTR1/VTR2)**

BOARD	Analog 1 (VTR1) / Analog 2 (VTR2)
SPEC.	700mV ± 1%
TEST	PR_OUT
ADJUST	VR7605
INPUT	---
MODE	PLAY
TAPE	Colour bar portion VFM3680KM (0min to 10min)
M.EQ	WFM Monitor

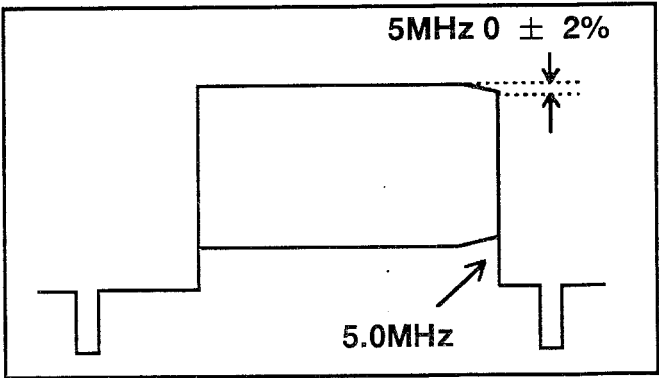
1. Set the item “V OUT SEL” to CMPNT on the SYSTEM SET UP menu.
2. Playback the colour bar portion of the Alignment Tape.
3. Confirm that the Pr level is in the specification, if it is not, adjust VR7605 so that the Pr Level of Component out is in the specification.



5-2-13 **Component Y Frequency
Confirmation & Adjustment
(VTR1/VTR2)**

BOARD	Analog 1 (VTR1) / Analog 2 (VTR2)
SPEC.	5MHz = 0 ± 2%
TEST	Video/Y Out
ADJUST	VR7009
INPUT	---
MODE	PLAY
TAPE	H SWEEP PAL: VFM3680KM (10min to 14min)
M.EQ	WFM Monitor

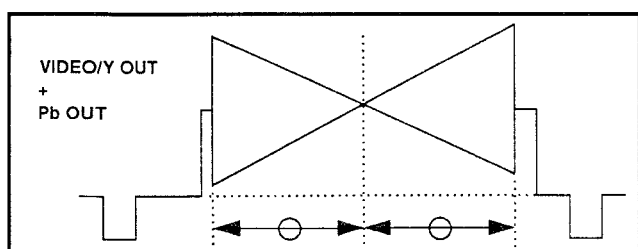
1. Set the item “V OUT SEL” to CMPNT on the SYSTEM SET UP menu.
2. Playback the H sweep portion of the Alignment Tape.
3. Adjust VR7009 so that the frequency characteristic is flat.
4. The right part of the H sweep frequency is 5MHz and the tolerance is 0±2%.



5-2-14 Component Y-Pb Timing Confirmation & Adjustment (VTR1/VTR2)

BOARD	Analog 1 (VTR1) / Analog 2 (VTR2)
SPEC.	$0 \pm 20\text{nS}$
TEST	PB_OUT, Video/Y Out
ADJUST	VR7603
INPUT	---
MODE	PLAY
TAPE	BOWTIE portion PAL: VFM3680KM (18min to 22min)
M.EQ	WFM Monitor

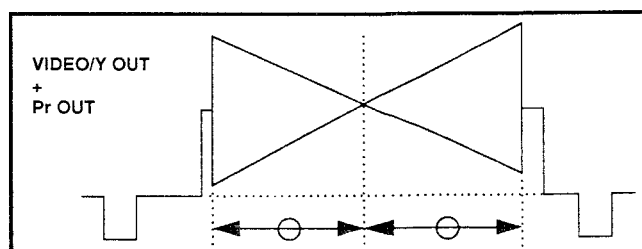
1. Set the item "V OUT SEL" to CMPNT on the SYSTEM SET UP menu.
2. Playback the BOWTIE portion of the Alignment Tape.
3. Set the WFM monitor in the Y-Pb timing adjustment mode.
4. Confirm that the Y-Pb timing is in the specification, if it is not, adjust VR7603 so that the cross point of envelope is at the center.



5-2-15 Component Y-Pr Timing Confirmation & Adjustment (VTR1/VTR2)

BOARD	Analog 1 (VTR1) / Analog 2 (VTR2)
SPEC.	$0 \pm 20\text{nS}$
TEST	PR_OUT, Video/Y Out
ADJUST	VR7601
INPUT	---
MODE	PLAY
TAPE	BOWTIE portion PAL: VFM3680KM (18min to 22min)
M.EQ	WFM Monitor

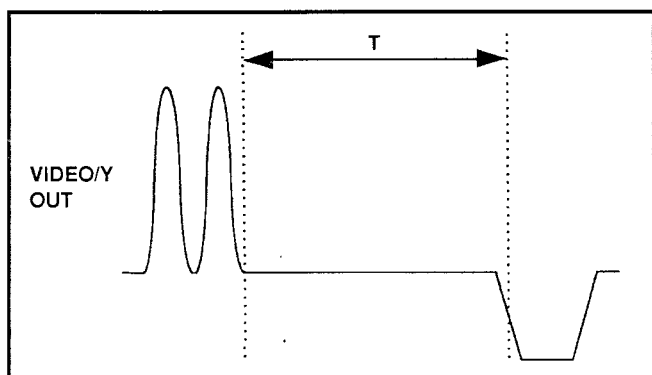
1. Set the item "V OUT SEL" to CMPNT on the SYSTEM SET UP menu.
2. Playback the BOWTIE portion of the Alignment Tape.
3. Set the WFM monitor in the Y-Pr timing measuring mode.
4. Confirm that the Y-Pr timing is in the specification, if it is not, adjust VR7601 so that the cross point of envelope is at the center.



5-2-16. OSD Character Position Confirmation & Adjustment (VTR1/VTR2)

BOARD	Analog 1 (VTR1)/Analog 2 (VTR2)
SPEC.	VTR1 $T=4.2 \pm 0.2\mu\text{sec.}$ VTR2 $T=5 \pm 0.2\mu\text{sec.}$
TEST	Video Mon Out
ADJUST	VC7401
INPUT	VIDEO IN: 0% Flat Field
MODE	EE
TAPE	---
M. EQ	WFM Monitor

1. Set the item "LCD SUPER" to ON on the BASIC SET UP menu.
2. Confirm that the T between the Sync edge and the CHAR is in the specification.
3. If it is out of the specification, adjust VC7401 so that T becomes $4.2 \pm 0.2\mu\text{sec.}$ (VTR1)/ $5 \pm 0.2\mu\text{sec}$ (VTR2).



5-2-17. 13.5M PLL Offset Adjustment (VTR1/VTR2)

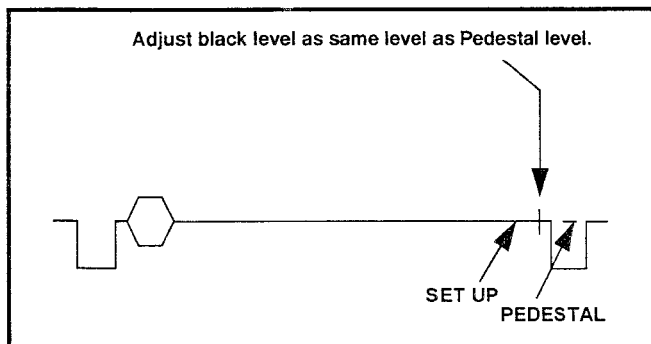
BOARD	Analog 1 (VTR1)/Analog 2 (VTR2)
SPEC.	$0 \pm 0.1\text{V}$
TEST	TP3701 (ERR)
ADJUST	VL3701
INPUT	COMPONENT 100% colour bar VIDEO/Y IN, PR IN, PB IN
MODE	EE
TAPE	---
M. EQ	Oscilloscope

1. Set the item "V IN SEL" to CMPNT on the SYSTEM SET UP menu.
2. Adjust VL3701 so that the DC level is in the specification.

5-2-18. AD Y Clamp Level Confirmation & Adjustment (VTR1/VTR2)

BOARD	Analog 1 (VTR1)/Analog 2 (VTR2)
SPEC.	Black level = Pedestal level $\pm 7\text{mV}$
TEST	Video/Y Out
ADJUST	(VIDEO ADJUST) Y CLAMP DC, VR3501
INPUT	VIDEO/Y IN, PB IN, PR IN COMPONENT 0% FLAT FIELD
MODE	REC (VTR1) EE (VTR2)
TAPE	Work Tape
M. EQ	WFM Monitor

1. Set the item "V IN SEL" and "V OUT SEL" to CMPNT on the SYSTEM SET UP menu.
2. Confirm that the Black level is pedestal level $\pm 7\text{mV}$, if it is out of the specification, adjust Y CLAMP DC so that the level is in specification.
3. If it can not adjust by EVR, adjust VR3501 so that the Black level becomes pedestal level $\pm 5\text{mV}$.



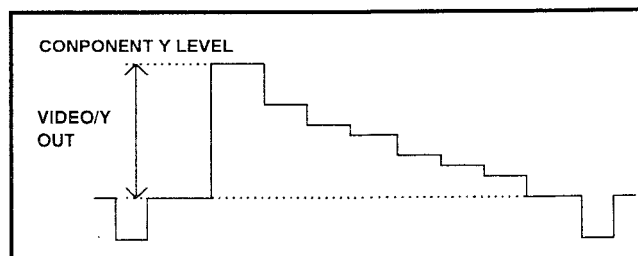
Note:

As the this signal has some carrier leak and noise etc. Put the Y filter switch of the WFM Monitor to "ON" and put the gain of the WFM Monitor up, and adjust.

5-2-19. REC Component Y Level Confirmation & Adjustment (VTR1/VTR2)

BOARD	Analog 1 (VTR1) / Analog 2 (VTR2)
SPEC.	700mV $\pm 1\%$
TEST	VIDEO/Y OUT
ADJUST	VR3008
INPUT	VIDEO/Y IN, PR IN, PB IN COMPONENT 100% colour bar
MODE	EE
TAPE	
M.EQ	WFM Scope

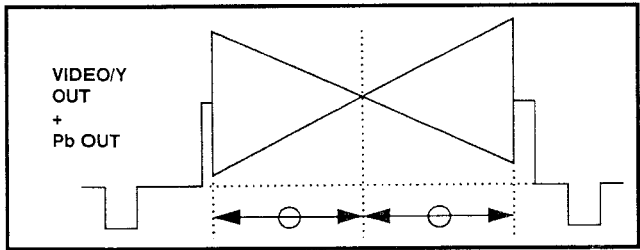
1. Set the item "V IN SEL" and "V OUT SEL" to CMPNT on the SYSTEM SET UP menu.
2. Confirm that the Y level is in the specification.
3. If it is out of specification, adjust VR3008 so that the component Y Level is in the specification.



5-2-22. REC Component Y-Pb Timing Confirmation & Adjustment (VTR1/VTR2)

BOARD	Analog 1 (VTR1) / Analog 2 (VTR2)
SPEC.	0 ± 20nS
TEST	VIDEO/Y OUT, PB_OUT
ADJUST	VR3203
INPUT	VIDEO/Y IN, PR IN, PB IN COMPONENT 100% BOWTIE
MODE	EE
TAPE	
M.EQ	WFM Monitor

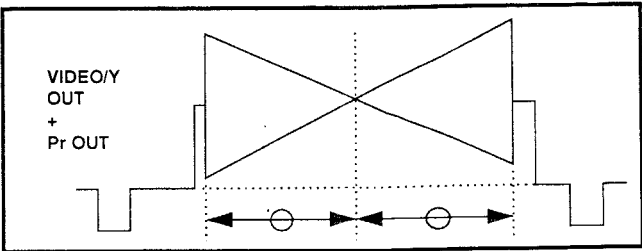
1. Set the item “V IN SEL” and “V OUT SEL” to CMPNT on the SYSTEM SET UP menu.
2. Set the WFM monitor in the YC timing adjustment mode.
3. Confirm that the Y-Pb timing is in the specification.
4. If it is out of specification, adjust VR3203 so that the cross point of envelope is at center.



5-2-23. REC Component Y-Pr Timing Confirmation & Adjustment (VTR1/VTR2)

BOARD	Analog 1 (VTR1) / Analog 2 (VTR2)
SPEC.	0 ± 20nS
TEST	VIDEO/Y OUT, PR_OUT
ADJUST	VR3208
INPUT	VIDEO/Y IN, PR IN, PB IN COMPONENT 100% BOWTIE
MODE	EE
TAPE	
M.EQ	WFM Monitor

1. Set the item “V IN SEL” and “V OUT SEL” to CMPNT on the SYSTEM SET UP menu.
2. Set the WFM monitor in the YC timing measuring mode
3. Confirm that the Y-Pr timing is in the specification.
4. If it is out of specification, adjust VR3208 so that the cross point of envelope is at the center.



5-2-24. MON EE C Level Adjustment (VTR1/VTR2)

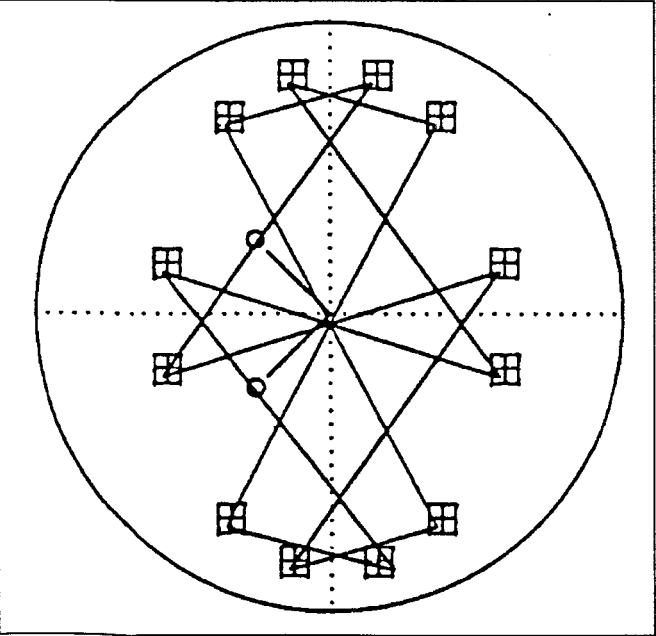
BOARD	Analog 1 (VTR1) / Analog 2 (VTR2)
SPEC.	Each vector point is center of the square mark (But the phase direction difference is $\pm 8\%$)
TEST	VIDEO MON OUT
ADJUST	VR7901 (PR C LEV), VR7902 (PB C LEV)
INPUT	VIDEO/Y IN, PR IN, PB IN COMPONENT 100% colour bar
MODE	EE
TAPE	---
M. EQ	Vector Scope

(VTR 1)

1. Set the item "V IN SEL" and "V OUT SEL" to CMPNT on the SYSTEM SET UP menu.
2. Adjust VR7901 and VR7902 so that the each vector point is center of the square mark (But the phase direction difference is $\pm 8\%$).

(VTR 2)

1. Set the item "V IN SEL" to CMPNT on the SYSTEM SET UP menu.
2. Keep pressing the EXT CHECK button and adjust VR7901 and VR7902 so that the each vector point is center of the square mark (But the phase direction difference is $\pm 8\%$).

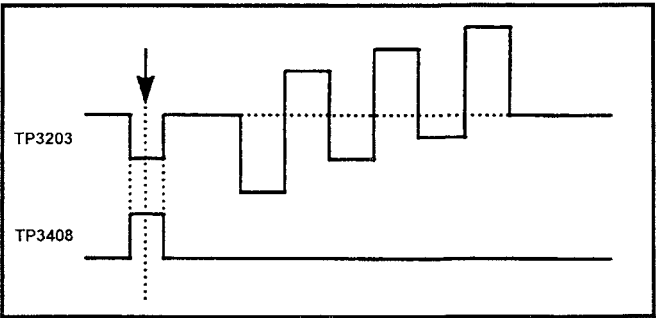


5-2-25. RSTW Adjustment (VTR1/VTR2)

BOARD	Analog 1 (VTR1)/Analog 2 (VTR2)
SPEC.	$0 \pm 100\text{nsec.}$
TEST	TP3408 (BGP), TP3203 (PB BLK DC)
ADJUST	VR3211
INPUT	VIDEO/Y IN: 100% Colour Bar
MODE	EE
TAPE	---
M. EQ	Oscilloscope

1. Set the item "V IN SEL" to CMPNT on the SYSTEM SET UP menu.
2. Adjust VR3211 so that the BURST portion at TP3203 is the same phase as the phase which is center of the pulse at TP3408.

Note:
It is not locked, turn VR3405 to locked.



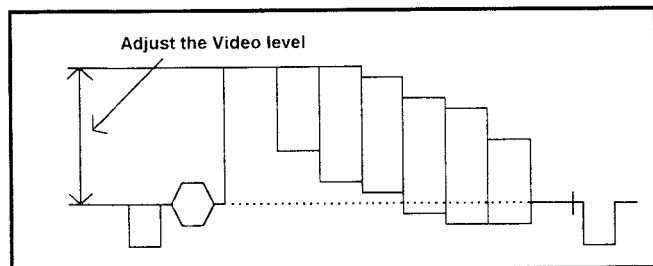
5-2-26. Composite Y Input Level Adjustment(VTR1/VTR2)

BOARD	Analog 1 (VTR1)/Analog 2 (VTR2)	
SPEC.	0.7V \pm 2%	
TEST	Video/Y Out	
ADJUST	(VIDEO ADJUST) CPS Y LEV	
INPUT	VIDEO IN: 100% Colour Bar	
MODE	REC (VTR1)	EE (VTR2)
TAPE	Work Tape	
M. EQ	WFM Monitor	

1. Set the item "V IN SEL" and "V OUT SEL" to CMPST on the SYSTEM SET UP menu.
2. Adjust CPS Y LEV so that the level is 0.7V \pm 2%
3. If it can not adjust by VIDEO ADJUST MENU, adjust VR3006 (CPS AD LEV).

Note:

BLACK LEVEL VR and VIDEO LEVEL VR should be in click portion.

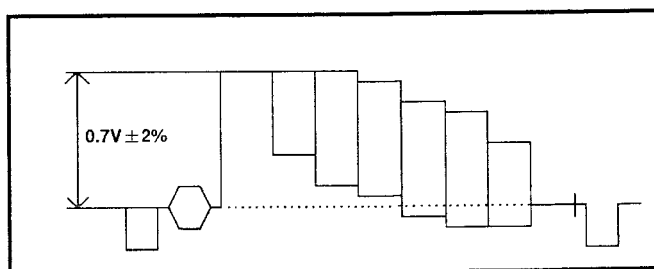


5-2-27. MON EE Level Confirmation & Adjustment (VTR1/VTR2)

BOARD	Analog 1 (VTR1)/Analog 2 (VTR2)	
SPEC.	0.7V \pm 2%	
TEST	Video Monitor Out	
ADJUST	VR7402	
INPUT	VIDEO IN: 100% Colour Bar	
MODE	EE	
TAPE	---	
M. EQ	WFM Monitor	

(VTR1)

1. Set the item "V IN SEL" and "V OUT SEL" to CMPST on the SYSTEM SET UP menu.
2. Confirm that the video level of VTR1 is 0.7V \pm 2%, if it is out of the specification, adjust VR7402 (VTR1) so that the level becomes 0.7V \pm 2%.



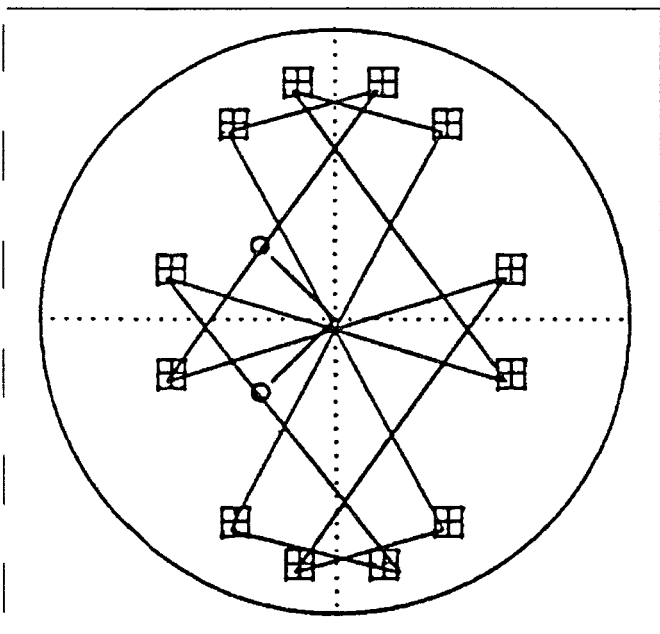
(VTR2)

1. Set the item "V IN SEL" and to CMPST on the SYSTEM SET UP menu.
2. Keep pressing the EXT CHECK button and Confirm that the video level of VTR2 is 0.7V \pm 2%, if it is out of the specification, adjust VR7402 (VTR2) so that the level becomes 0.7V \pm 2%.

5-2-28. CHROMA Adjustment (VTR1/VTR2)

BOARD	Analog 1 (VTR1)/Analog 2 (VTR2)
SPEC.	Vector Point is Center of Square Mark
TEST	Video Out
ADJUST	(VIDEO ADJUST) AXIS VR3405, VR3213, VR3214
INPUT	VIDEO IN: 100% Colour Bar
MODE	REC (VTR1) EE (VTR2)
TAPE	Work Tape
M. EQ	Vector Scope

1. Set the item "V IN SEL" and "V OUT SEL" to CMPST on the SYSTEM SET UP menu.
2. Adjust AXIS so that the each vector points becomes on center of the square marks.
3. If it can not adjust by VIDEO ADJUST MENU, adjust VR3405 (AXIS 1), VR3213 (DEC PB LEV) and VR3214 (DEC PR LEV).



Note:

The VRs (VIDEO LEV, CHROMA PHASE, CHROMA LEV) should be in center click portion.

Note:

Before this adjustment, the playback circuit adjustments should be completed.

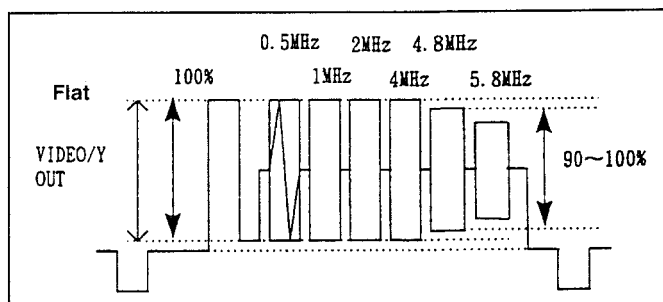
5-2-29. Composite Y Frequency Response Adjustment (VTR1/VTR2)

BOARD	Analog 1 (VTR1) / Analog 2 (VTR2)
SPEC.	4.8MHz = 0 - 1dB
TEST	VIDEO/Y OUT
ADJUST	VR7003
INPUT	VIDEO/Y IN : Multi Burst
MODE	REC (VTR1) EE (VTR2)
TAPE	Work tape
M. EQ	WFM Monitor

1. Set the item "V IN SEL" and "V OUT SEL" to CMPST on the SYSTEM SET UP menu.
2. Adjust VR7003 so that the frequency response is flat.

Note:

The level of middle range should not be swelled over 10%.



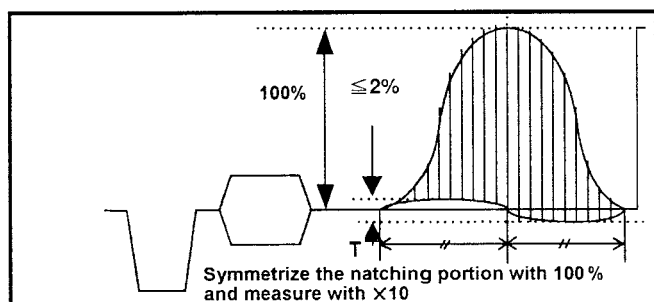
5-2-30. REC YC Timing Confirmation (VTR1/VTR2)

BOARD	Analog 1 (VTR1)/Analog 2 (VTR2)
SPEC.	$T=0 \pm 20\text{ns}$
TEST	Video/Y Out
ADJUST	---
INPUT	VIDEO/Y IN : 12.5 T PULSE & BAR
MODE	REC (VTR1) EE (VTR2)
TAPE	Work Tape
M. EQ	WFM Monitor

1. Set the item "V IN SEL" and "V OUT SEL" to CMPST on the SYSTEM SET UP menu.
2. Confirm that the hatching portion of below figure is symmetric by left and right, and confirm that the YC timing is in specification.
3. If it is out of specification, adjust VR7215 so that the YC timing is $0 \pm 20\text{ns}$ ($\leq 2\%$).

Note:

When confirm it, adjust the chroma Level VR properly.
Set the Chroma Level VR to click position after adjustment.



Note:

If adjust the VR7215, confirm the Vector and Burst adjustment.

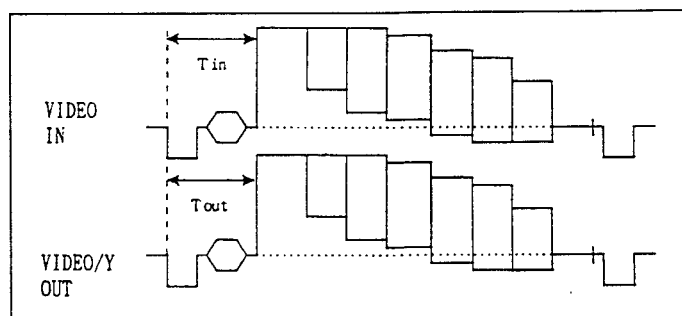
5-2-31. Y Signal Timing Adjustment (VTR1/VTR2)

BOARD	Analog 1 (VTR1) / Analog 2 (VTR2)
SPEC.	$T_{out} = T_{in} \pm 10 \text{ nsec}$
TEST	VIDEO/Y OUT
ADJUST	VR3701
INPUT	VIDEO/Y IN : 100% Colour Bar
MODE	REC (VTR1) EE (VTR2)
TAPE	Work Tape
M. EQ	WFM Monitor

1. Set the item "V IN SEL" and "V OUT SEL" on the SYSTEM SET UP menu.
2. Adjust VR3701 so that the phase of T_{in} and T_{out} position in the specification.

Note:

Before this adjustment, the digital circuit and SCH phase video adjustment should had been completed.



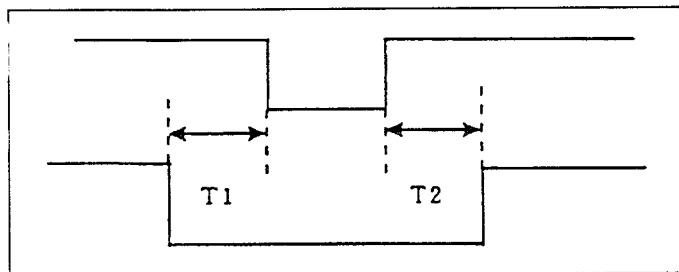
5-2-32. SCH Detection Adjustment (VTR1/VTR2)

BOARD	Analog 1 (VTR1)/Analog 2 (VTR2)
SPEC.	as follows
TEST	TP3207 (IN SCH)
ADJUST	VR3201
INPUT	VIDEO IN: 100% Colour Bar
MODE	EE
TAPE	---
M. EQ	Oscilloscope.

1. Set the item "V IN SEL" and "V OUT SEL" to CMPST on the SYSTEM SET UP menu.
2. Adjust VR3201 so that the T1 and T2 portion are in the specification, then confirm that the DC level at TP3207 is more than 4.5V.
3. Confirm that the DC level at TP3207 is less than 0.7V under the No input signal condition.

Note:

If the VR3201 have two adjustment point, set it in specification position of colour framing (item 5-2-33).



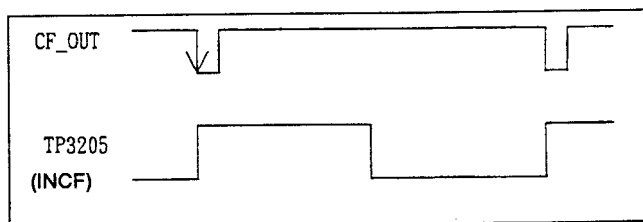
5-2-33. Confirmation of Colour Framing Detection (VTR1/VTR2)

BOARD	Analog 1 (VTR1)/Analog 2 (VTR2)
SPEC.	
TEST	CF OUT of SG, TP3205
ADJUST	---
INPUT	VIDEO/Y IN: 100% Colour Bar
MODE	EE
TAPE	---
M. EQ	Oscilloscope.

1. Set the item "V IN SEL" and "V OUT SEL" to CMPST on the SYSTEM SET UP menu.
2. Confirm that the phase is synchronized between falling edge of CF Pulse and rising edge of INCF Pulse.

Note:

Before this confirmation, SCH adjustment should have been completed.

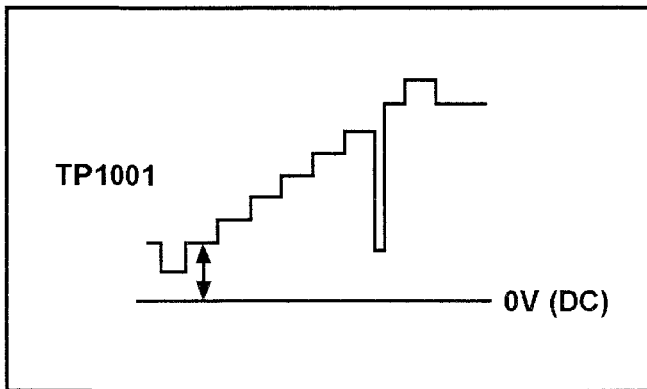


6. DD Converter

6-1 Bright Adjustment (VTR1/VTR2)

BOARD	DD Conv. 1 (VTR1)/DD Conv. 2 (VTR2)
SPEC.	$3.8 \pm 0.1\text{V (DC)}$
TEST	TP1001 (VTR1)/TP1202 (VTR2)
ADJUST	Top Panel : BRIGHTNESS VR
INPUT	VIDEO IN: 5 STEP
MODE	EE
TAPE	---
M. EQ	Oscilloscope

1. Adjust the Brightness VR so that the voltage becomes in the specification.



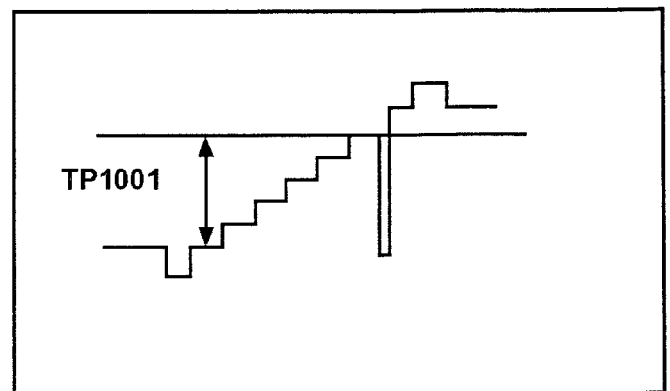
Note:

Before this adjustment, the Video Circuit Adjustment should have been completed.
The Encoder VRs (VIDEO LEV, BLACK LEV, CHROMA PHASE, CHROMA LEV) should be in center click portion.

6-2. Contrast Adjustment (VTR1/VTR2)

BOARD	DD Conv. (VTR1)/DD Conv. (VTR2)
SPEC.	$3.3 \pm 0.1\text{Vp-p}$
TEST	TP1001 (VTR1)/TP1202 (VTR2)
ADJUST	(SYSTEM ADJUST) LCD CONT
INPUT	VIDEO IN: 5 STEP
MODE	EE
TAPE	---
M. EQ	Oscilloscope

1. Adjust the LCD CONT so that the voltage becomes in the specification.



Note:

Before this adjustment, the Video Circuit Adjustment should have been completed.
The Encoder VRs (VIDEO LEV, BLACK LEV, CHROMA PHASE, CHROMA LEV) should be in center click portion.

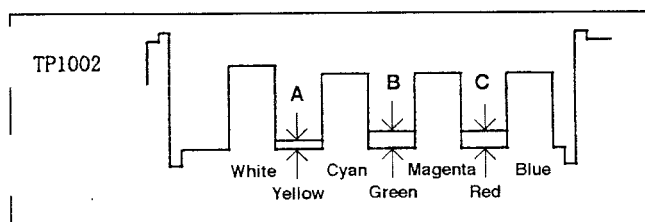
6-3. HUE Adjustment (VTR1/VTR2)

BOARD	DD Conv. (VTR1)/DD Conv. (VTR2)
SPEC.	C < 200mVp-p
TEST	TP1002 (VTR1)/TP1203 (VTR2)
ADJUST	(SYSTEM ADJUST) LCD HUE, LCD COLOUR
INPUT	
MODE	PLAY
TAPE	VFM3680KM : Colour Bar Portion
M. EQ	Oscilloscope

1. Adjust LCD COLOUR so that the levels (White and Blue,) are aligned.
2. Adjust LCD HUE so that the portion A, B and C are Becomes minimum, then portion C is should be becomes in specification.

Note:

Measure the waveform between 230 and 260 line period by 1V rate trigger.



Note:

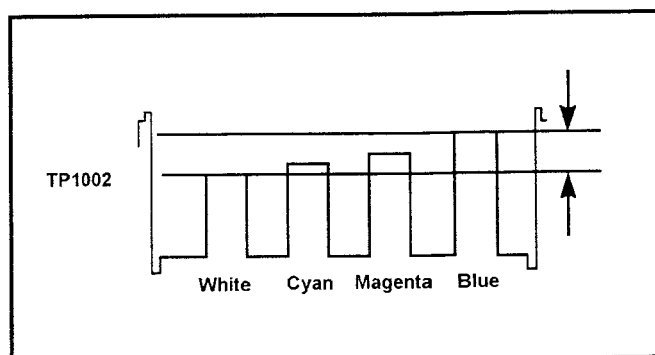
Before this adjustment, the Video Circuit Adjustment should has been completed.

The Encoder VRs (VIDEO LEV, BLACK LEV, CHROMA PHASE, CHROMA LEV) should be in center click portion.

6-4. Chroma Level Adjustment (VTR1/VTR2)

BOARD	DD Conv. (VTR1)/DD Conv. (VTR2)
SPEC.	300 ± 50mVp-p
TEST	TP1002 (VTR1)/TP1203 (VTR2)
ADJUST	(SYSTEM ADJUST) LCD COLOUR
INPUT	
MODE	PLAY
TAPE	VFM3680KM : Colour Bar Portion
M. EQ	Oscilloscope

1. Adjust LCD COLOUR so that the level difference between white and blue becomes in the specification.



Note:

Before this adjustment the Video Circuit Adjustment should has been completed.

The Encoder VRs (VIDEO LEV, BLACK LEV, CHROMA PHASE, CHROMA LEV) should be in center click portion.

7. LCD Adjustment (VTR1/VTR2)

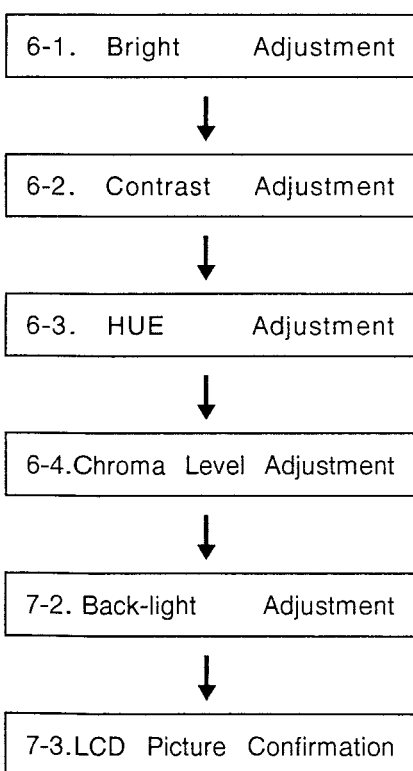
7-1. Preparation

1. Before these adjustments, the Video Circuit Adjustment should have been completed.
2. The Encoder VRs (VIDEO LEV, SET UP, HUE, CHROMA LEV) should be in center click portion.
3. The Back Light Adjustment should be performed after over 30 minutes aging.

LCD Adjustment procedure after LCD replacement.

Note:

Please do not replace the LCD unit simultaneously VTR 1 and VTR 2



7-2. Back-light Adjustment (VTR1/VTR2)

BOARD	---
SPEC.	---
TEST	LCD Display
ADJUST	(SYSTEM ADJUST) LCD B LIGHT
INPUT	VIDEO IN: 100% Flat Field
MODE	EE
TAPE	---
M. EQ	---

1. Adjust LCD B LIGHT so that the brightness of the LCD becomes same as that of LCD of other VTR by your eyes.

Note:

The LCD panel have field angle of vision, you should look from the front.

Note:

Before this adjustment, the Video Circuit Adjustment should have been completed.

The Encoder VRs (VIDEO LEV, BLACK LEV, CHROMA PHASE, CHROMA LEV) should be in center click portion.

7-3. LCD Picture Confirmation (VTR1/VTR2)

BOARD	---
SPEC.	---
TEST	LCD Display
ADJUST	(SYSTEM ADJUST) LCD COUNT, LCD COLOUR
INPUT	VIDEO IN: CHROMA NOISE
MODE	EE
TAPE	---
M. EQ	---

1. Confirm that the brightness, contrast and colour of LCD are same as VTR 1 and 2 LCD by your eyes.
2. If it is not, adjust LCD CONT and LCD COLOUR so that the picture is same as VTR 1 and 2.

Note:

The LCD panel have field angle of vision, you should look from the front.

Note:

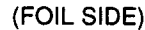
Before this adjustment, the Video Circuit Adjustment should has been completed.

The Encoder VRs (VIDEO LEV, BLACK LEV, CHROMA PHASE, CHROMA LEV) should be in center click portion.

Memo

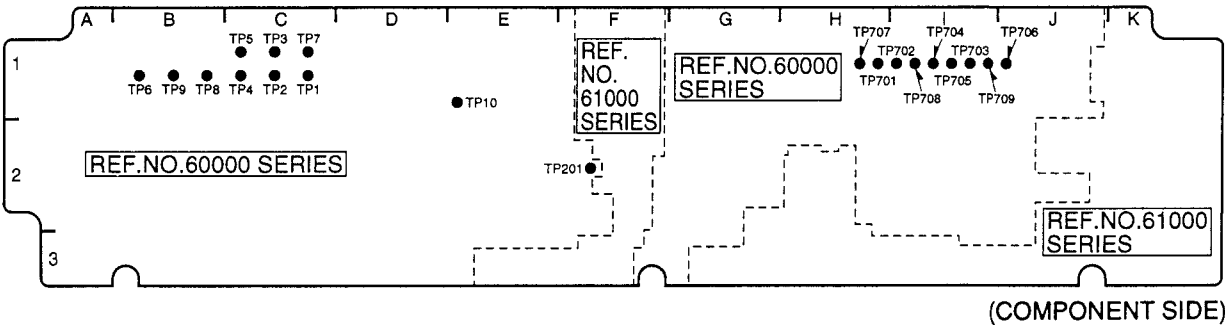
DIGITAL 1 P.C. BOARD



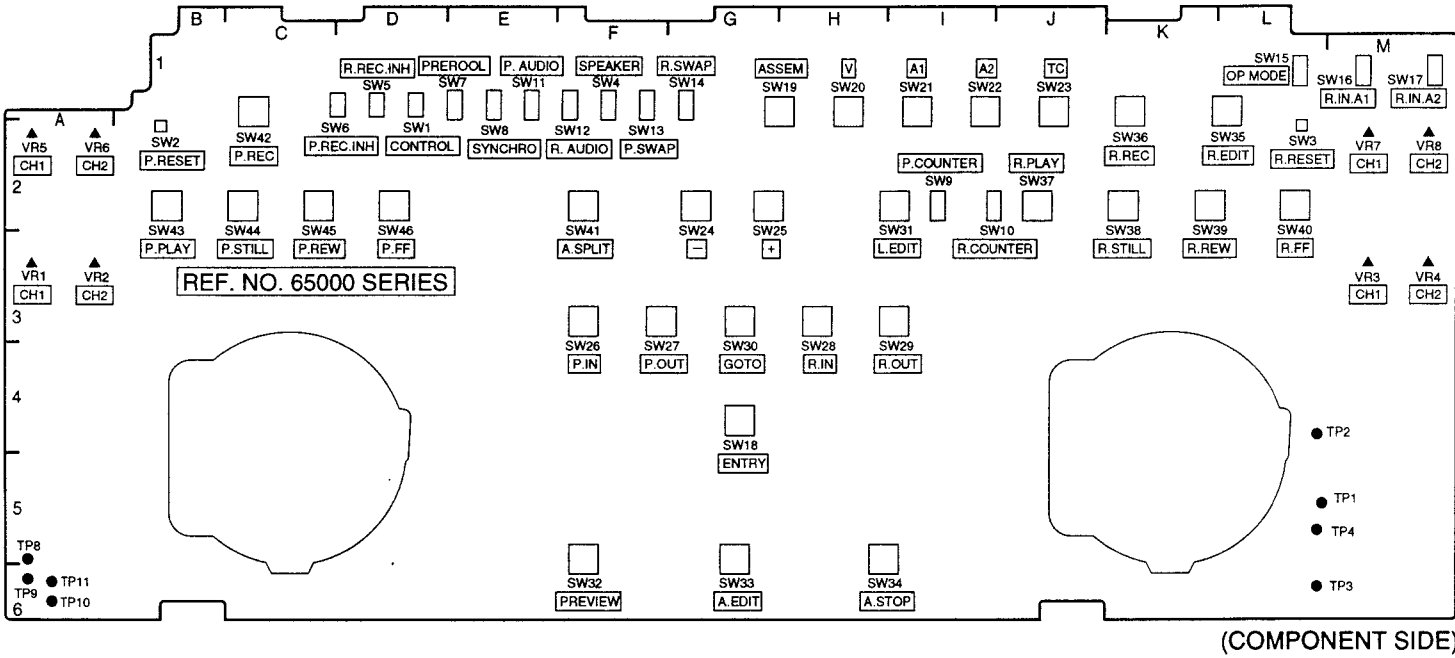


LOCATION OF TEST POINTS & CONTROLS

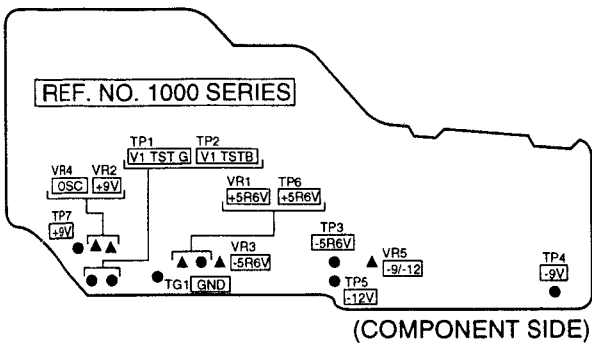
AV SYSCON P.C. BOARD



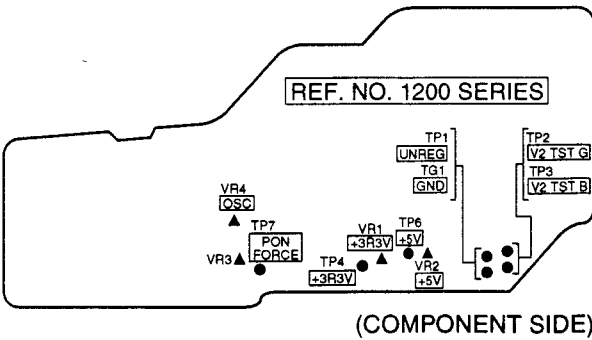
KEY BOARD P.C. BOARD



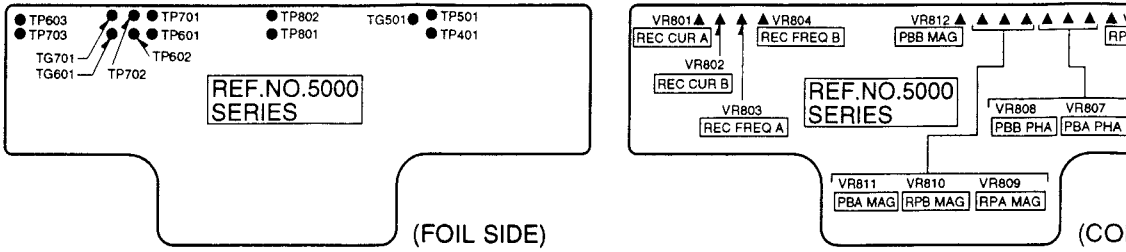
DC DC CONV 1 P.C. BOARD



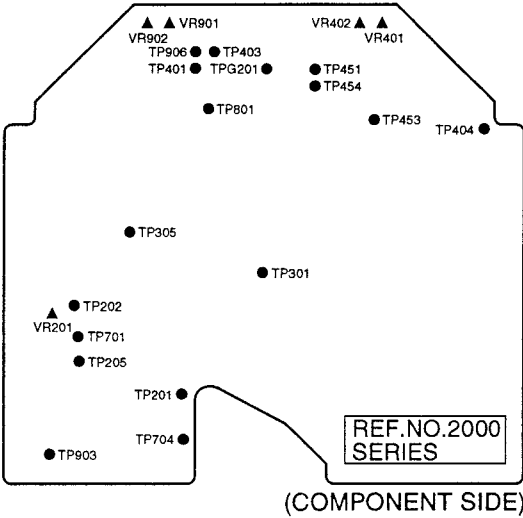
DC DC CONV 2 P.C. BOARD



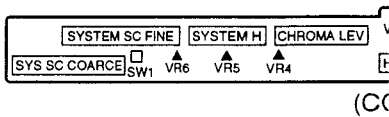
RF AMP P.C. BOARD



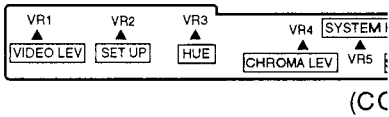
SERVO P.C. BOARD



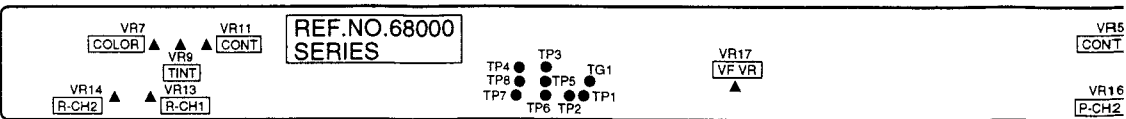
ENCODER VR L P.C. BOA

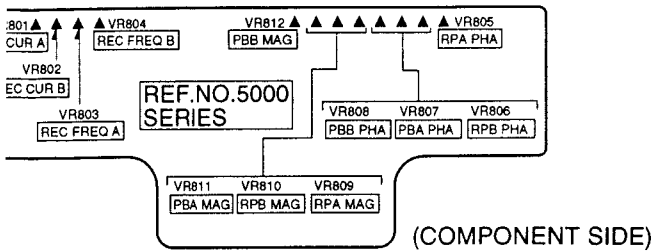


ENCODER VR R P.C. BOA

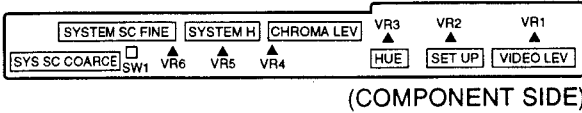


DISPLAY CONTROL P.C. BOARD

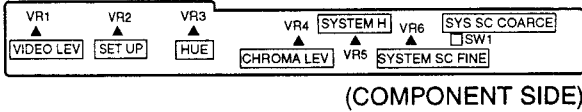




ENCODER VR L P.C. BOARD



ENCODER VR R P.C. BOARD



SECTION 4

SERVICE INFORMATION

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1. ERROR MESSAGES

When one of the following message numbers appears on the display, the VTR is set to the auto OFF mode (stop) or its power is forcibly turned off.

Error No.	Details of Error	VTR Operation
E-11	When the cassette was inserted, the reel motor locked up for about 2.5 seconds or longer. When the cassette is ejected, the VTR is set to the auto OFF mode.	STOP
E-21	When the cassette was removed, the front loading motor locked up for about 4 seconds. When the cassette moves down again and the motor locks up again even if an attempt is made to remove the cassette, the VTR is set to the auto OFF mode if the cassette has moved down.	STOP
E-31	The loading motor locked up for about 4 seconds when the cassette was loaded. If the motor locks up even when the cassette is unloaded and loaded again, the cassette is ejected. The VTR is set to the auto OFF mode.	STOP
E-32	The motor locked up for about 4 seconds when the cassette was unloaded. The VTR is set to the auto OFF mode.	STOP
E-41	The FG (rotational speed) signal is not output from the cylinder motor.	STOP
E-42	The PG (phase speed) signal is not output from the cylinder motor.	STOP
E-43	The cylinder motor speed is abnormally high.	STOP
E-44	The cylinder motor speed is abnormally low.	STOP
E-51	The FG (rotational speed) signal is not output from the capstan motor.	STOP
E-52	The capstan motor speed is abnormally high.	STOP
E-53	The capstan motor speed is abnormally low.	STOP
E-61	The supply reel motor has locked up.	STOP
E-62	The take-up reel motor has locked up.	STOP
E-63	The supply reel motor speed is abnormally high.	STOP

Error No.	Details of Error	VTR Operation
E-64	The take-up reel motor speed is abnormally high.	STOP
E-65	Abnormal tension has been detected.	STOP
E-66	At the tape start or end, the short FF or, REW operation does not stop even after 7 or more seconds.	STOP
E-67	A check sum error was detected in the serial data communication between the syscon and servo.	STOP
E-68	In serial data communication between the syscon and servo, the data was fixed at low or high and the absence of data was detected.	STOP
E-69	A communication error was detected in the serial data between the syscon and servo when the power was turned on.	STOP
E-70	About an hour has elapsed after the fan motor stopped. The VTR forcibly turns off its power. ※1	Forced POWER OFF
E-71	The hear sensor was activated and an abnormally high temperature inside the VTR was detected.	Forced POWER OFF
E-72	Trouble in the solenoid drive circuitry was detected.	Forced POWER OFF
E-73	Trouble in the cleaning solenoid drive circuitry was detected.	Forced POWER OFF
E-BA	The input supply voltage dropped below the undercut voltage. ※2	Forced POWER OFF (*)

(*) The counter display flashes to provide a warning.

※ 1: The mark "S" displayed on the super impose of the LCD during stop the Fan Motor.

2: [Input DC voltage error detection]

- Under-cut voltage and warning level indicated as below.

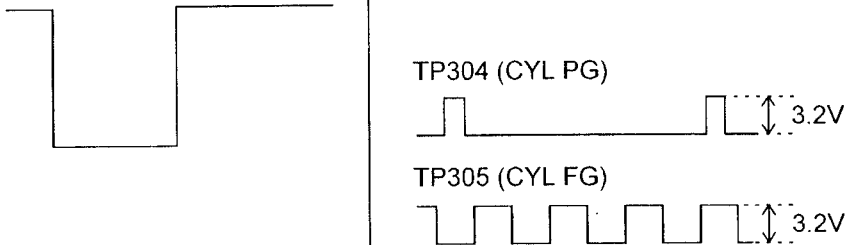
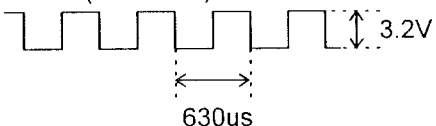
INPUT DC voltage, when the power on.	WARNING	Battery under-cut voltage
more than 13.0V	under 12.5V	12.0V
less than 13.0V	under 11.0V	10.6V

- The counteris flashed of the display on the warning mode.

- If the Input DC voltage is more than 18.0V or under 10.2V, shut down the power compulsorily.

Note: AJ-LT75 can use only AJ-B75 as AC Adaptor.

2. AUTO OFF Check Point Table

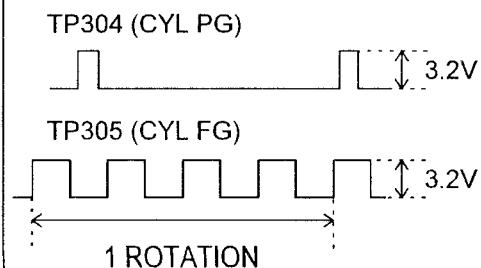
Message	Check Point	
DRUM_ROTATE_TOO_FAST E-43	 <p>TP304 (CYL PG)</p> <p>TP305 (CYL FG)</p>	<p>Check Cylinder PG at pin 66 of IC2201 (TP304)</p> <p>Check Cylinder FG at pin 67 of IC2201 (TP305)</p> <p>[In case of fast rotation]</p> <ul style="list-style-type: none"> ● Check Cylinder flexible cable, connectors. ● Check CYL_ERR (TP204) voltage. <p>Normal Rotation : TP204 = about 1.6 V</p> <p>During Full Acceleration : TP204 = 0 V</p> <p>EJECT mode : TP204 = 3.2 V</p> <p>V REF (IC2506-47 pin) = about 1.6 V fix</p> <p>If above voltage is incorrect, servo board is not correct.</p> <p>[In case of FG is correct and PG is incorrect]</p> <p>PG signal flow is incorrect. (Cylinder >> SERVO >> Servo)</p>
CAP_ROTATE_TOO_FAST E-52	 <p>TP301 (CAP FG1)</p>	<p>Check Capstan FG at TP301.</p> <ul style="list-style-type: none"> ● Check acceleration command. <p>Confirm the V REF (IC2503 - 47 pin) is about 1.6 V.</p> <p>Confirm the CAP_ERR (TP2203) voltage is about 1.0 V at STOP condition.</p> <p>→ If it is incorrect, command signal flow is incorrect.</p> <ul style="list-style-type: none"> ● Check the FG signal does not have noise. <p>Check CAP_FG1,2 (TP301, 302) frequency is correspond with rotary speed. (about 1.58 kHz in REC/PB mode)</p> <p>→ If it is incorrect, FG signal flow is incorrect.</p>

DRUM_ROTATE_TOO_SLOW

E-44

Check that the tape is stick with the Cylinder.

Check that the tape is stick with a part of the tape pass and it causes the high tension. In this case tape may brake the Cylinder rotation.



Check Cylinder PGat pin 66 of IC2201 (TP304)

Check Cylinder FG at pin 67 of IC2201 (TP305)

[In case of FG is correct and PG is incorrect]

PG signal flow is incorrect. (Cylinder >> Servo)

[In case of both PG and FG are incorrect (Cylinder rotation is actually slow.)]

(1) Check Cylinder Unit.

Rotate the Cylinder in EJECT or UNLOAD condition. Check that the Cylinder smoothly rotate. If it is not smooth, the Cylinder unit is incorrect.

(2) Check the rotary speed detection.

Check that the CYL_FG_ (TP305) shows the pulse which is 4 pulses per rotation and the duty is 50 %, 0V/3.2V.

If it is incorrect, FG signal flow is incorrect.

(3) Check the Servo CPU outputs acceleration command.

- Check that acceleration voltage (less than 1.6 V) is output at CYL_ERR (TP204).
- Check that drive on signal which is 3.2 V at IC2506-49 pin. when it is 1.6 V, it is OFF mode.

(4) Check the Reference voltage.

Check that V REF (IC2506-47 pin) voltage is about 1.6 V.

→ If (3) or (4) is incorrect, surround circuit of CPU is incorrect.

(5) Check that Power Supply voltage.

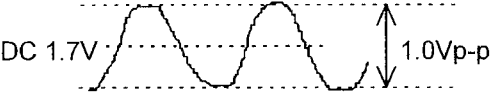
Check that Drive IC voltage (VCC 3.2V : IC2506-54 pin) and Motor Drive voltage CYL_VM (IC2506-33 pin).

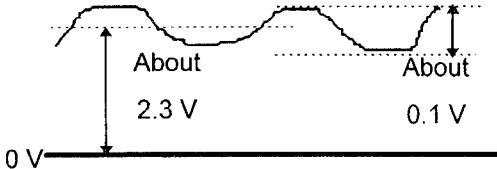
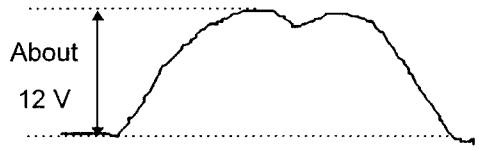
The VM is positive voltage during Cylinder ON.

→ If it is correct, between Motor Drive and Cylinder is incorrect.

Check connectors of Cylinder and Servo.

<p>S_REEL_ROTA_TOO_FAST</p> <p>E-63</p>		<p>1. Check Reel FG waveform. Reel FG --- Refer to Reel FG Check 1 and Reel FG Check 2 Check the below signals input to Reel CPU</p> <ul style="list-style-type: none"> ● S-Reel-FG (IC2101-1 & 8 pin) ● T-Reel-FG (IC2101-9 & 68 pin) ● S-Reel-FWD-L (IC2101-11 pin) ● T-Reel-FWD-L (IC2101-12 pin) <p>[In case of abnormal condition]</p> <ul style="list-style-type: none"> ● Check loosen of connector Servo board ● Reel FG Sensor, Reel Replacement <p>2. Check Reel Drive circuit. TP2403 (S REEL ERR) and TP2543 (T REEL ERR) on SERVO board --- less than 0.5 V</p>
<p>T_REEL_ROTA_TOO_FAST</p> <p>E-64</p>		<p>1. Check Reel FG waveform. Reel FG --- Refer to Reel FG Check 1 and Reel FG Check 2 Check the below signals input to Reel CPU</p> <ul style="list-style-type: none"> ● S-Reel-FG (IC2101-1 & 8 pin) ● T-Reel-FG (IC2101-9 & 68 pin) ● S-Reel-FWD-L (IC2101-11 pin) ● T-Reel-FWD-L (IC2101-12 pin) <p>[In case of abnormal condition]</p> <ul style="list-style-type: none"> ● Check loosen of connector Servo board ● Reel FG Sensor, Reel Replacement <p>2. Check Reel Drive circuit. TP2403 (S REEL ERR) and TP2543 (T REEL ERR) on SERVO board --- less than 0.5 V</p>

<div>E-61</div> <ul style="list-style-type: none"> ● S REEL LOCK <div>E-62</div> <ul style="list-style-type: none"> ● T REEL LOCK 		<ol style="list-style-type: none"> 1. Confirm the Reel offset adjustment. 2. Confirm the Reel Torque adjustment. 3. Confirm the Tension. 4. Check the Capstan is operated correctly (CAP mode). 5. Check the tape is beat 6. Check loosen of connector. 7. Check the Reel-Brake Solenoid are operated correctly.
S_FF/REW_TIMEOVER <div>E-66</div>	<p>Check the problem occurred at tape beginning or tape, or other portion.</p>  <ul style="list-style-type: none"> ● FG1 (IC2901 - 1 & 7 pin) ● FG2 (IC2904 - 1 & 7 pin) 	<ol style="list-style-type: none"> 1. Check Reel FG Reel FG --- Refer to Reel FG Check 1 and Reel FG Check 2 [In case of abnormal condition] <ul style="list-style-type: none"> ● Check loosen of connector Servo board ● Reel FG Sensor, Reel Replacement 2. Check transparent tape detection. [In case of abnormal condition] <ul style="list-style-type: none"> ● Check loosen of connector Servo board ● Replace sensors. 3. Check the tape is not bent.

<p>Fig 1</p> <p>REEL Position Detect</p>		<p>Rotate the REEL motor in EJECT mode and check the following waveform.</p> <p>Servo board</p> <table><tr><td>P2035 - 16</td><td>TH1+</td></tr><tr><td>14</td><td>TH1-</td></tr><tr><td>12</td><td>TH2+</td></tr><tr><td>10</td><td>TH2-</td></tr><tr><td>8</td><td>TH3+</td></tr><tr><td>6</td><td>TH3-</td></tr></table> <hr/> <table><tr><td>P2034 - 16</td><td>SH1+</td></tr><tr><td>14</td><td>SH1-</td></tr><tr><td>12</td><td>SH2-</td></tr><tr><td>10</td><td>SH3+</td></tr><tr><td>8</td><td>SH3+</td></tr><tr><td>6</td><td>SH3-</td></tr></table>	P2035 - 16	TH1+	14	TH1-	12	TH2+	10	TH2-	8	TH3+	6	TH3-	P2034 - 16	SH1+	14	SH1-	12	SH2-	10	SH3+	8	SH3+	6	SH3-
P2035 - 16	TH1+																									
14	TH1-																									
12	TH2+																									
10	TH2-																									
8	TH3+																									
6	TH3-																									
P2034 - 16	SH1+																									
14	SH1-																									
12	SH2-																									
10	SH3+																									
8	SH3+																									
6	SH3-																									
<p>Fig2</p> <p>REEL Drive Waveform</p>		<p>Select T or S_REEL_TRQ on the MENU, and rotate the REEL and confirm the following waveform is like Fig. 2.</p> <p>Servo board</p> <table><tr><td>P2035 - 13</td><td>TM3</td></tr><tr><td>9</td><td>TM1</td></tr><tr><td>19</td><td>TM1</td></tr><tr><td>13</td><td>SM3</td></tr></table> <hr/> <table><tr><td>9</td><td>SM1</td></tr><tr><td>17</td><td>SM2</td></tr></table>	P2035 - 13	TM3	9	TM1	19	TM1	13	SM3	9	SM1	17	SM2												
P2035 - 13	TM3																									
9	TM1																									
19	TM1																									
13	SM3																									
9	SM1																									
17	SM2																									

3. DIAG MENU OPERATIONS

- Display the Software version
- Display the Hour Meter

The units system software version display and hour meter displays can be viewed on the DIAG menu.

<To transfer from a Normal mode to the DIAG mode>

- 1). Set the unit to the JOG mode.
Note : Remember that the mode cannot be transferred in the shuttle mode.
- 2). Press the DIAG (SHIFT + REC) buttons. (This cannot be done by remote control)
The hour meter display appear on the VTR 1 and VTR 2 monitor screens.
- 3). Turn the Search Dial to move to an item.
Turn it clockwise (FWD) to move down and counterclockwise (REV) to move up.

DIAG-MENU HOUR METER		
<VTR 2>		
* H00	OPERATION	10000H
H01	DRUM RUN	10000H
H02	TAPE RUN	10000H
H03	THREADING	10000T
H11	DRUM RUN r	10000H
H12	TAPE RUN r	10000H
H13	THREADING r	10000T

Hour Meter Display

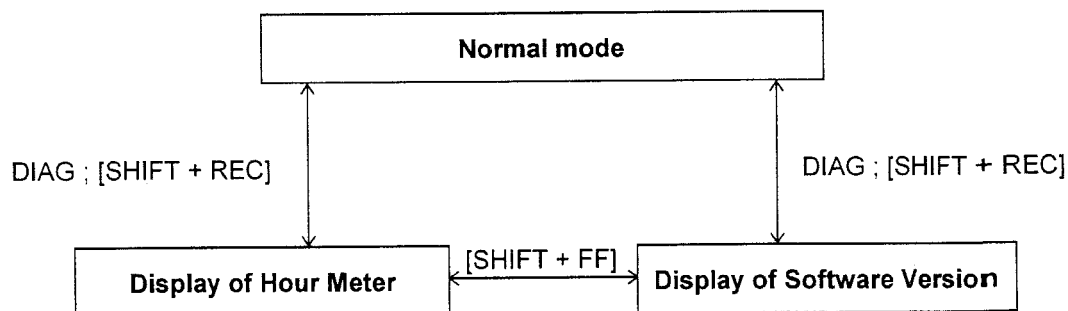
DIAG-MENU	
<VTR 1>	
DISPLAY	Ver<1.00-00>
AV-SYSCON	Ver<1.00-00>
SBC	Ver<1.06-00>
CYLINDER	Ver<1.00-00>
REEL	Ver<1.00-00>
END	

Version Display

<To display the software version>

- (1). Press the SHIFT + FF button on VTR 2 side.
The display changes from hour meter to version.

[Display Mode]



- Press the DIAG (SHIFT + REC) buttons, then move to normal mode from the DIAG mode.

Note: Software version of KEYBOARD is displayed instead of DISPLAY at VTR2 side.

4. HOW TO RESET THE HOUR METER

1. Make an Eject condition.
2. Make a short circuit between TP33007 and TG33008 on the DIGITAL 2 P. C. Board.
3. Press the DIAG (SHIFT + REC) buttons. The hour meter displays appear on the VTR 1 and VTR 2 monitor screens.
4. Set the cursor to mark "r" indicated item (item H11 to H13).
 ※ The Hour Meter indication can reset individually, which are DRUM RUN r, TAPE RUN r, and THREADING r.
5. Press the reset button (VTR 1 and VTR 2 side follow your request), then appeared message as indicated as below.

<Case of select the DRUM RUN r>

HOUR METER INIT SET

<VTR 1>

DRUM RUN r OK?

YES <PLAY> / NO <STILL>

- ※ When press the "PLAY" button on the VTR 2 side then execute the reset function.
 When press the "STILL" button on the VTR 2 side then cancel the reset command.

Details of the hour meter display are given below.

Item		Data	Description
No.	Display	Display	
H00	OPERATION	00000H 999999H	The period of time during which the power has been supplied since it was turned on is displayed in 1-hour increments.
H01	DRUM RUN	00000H 999999H	The period of time during which the during has been rotation is displayed in 1-hour increments.
H02	TAPE RUN	00000H 999999H	The tape travel duration in the fast forward, rewind, play, search (JOG, VAR, SHTL), recording or editing mode (but not in the STILL mode with JOG, VAR and SHTL) is displayed in 1-hour increments.
H03	THREADING	00000H 999999H	The number of times the tape has been threaded or unthreaded is displayed in 1-time increments.

5. Service Menu Information

< Condition >

1. The Control Switch is set to "LOCAL" side on the Key Panel.
2. Set the unit to Jog mode.

< To transfer from normal mode to Service Menu mode >

1. Press the "ENTRY" + "EDIT" button so that the SET UP menu is displayed on the LCD display and then press the "ENTRY" + "REW" + "FF" button of the VTR 1 side and "REW" + "FF" button of the VTR 2 side simultaneously so that the Main menu of Service menu is displayed.

SERVICE-MENU	
VTR1	No. A00
* A00	: SERVO ADJUST
B00	: RF ADJUST
b00	: RF ADJUST (DV)
C00	: EQ ADJUST
c00	: EQ ADJUST (DV)
D00	: VIDEO ADJUST
E00	: SYSTEM ADJUST
END	

MAIN Menu

2. Move the star mark "*" by search Dial and select the item on the Main menu.
3. Press the "IN" button, then open the Adjustment Menu follow the selected item (A00 to E00) on the Main menu.

Note: The contents of each Adjustment menu, which are described on behind page.

- Press the "ENTRY" + "EDIT" button on the Main menu condition, then escape from Service menu mode.

< Key function for the Service Menu >

- [SHIFT] + [MENU] ① Move to Set Up Menu mode.
 ② Escape from Main menu on Service Menu mode.
- [SHIFT] + [FF][REW] ① Move to Service Menu mode from Set Up menu mode.
 (VTR2 side).
- [IN] ① Move to each Adjustment Menu (A00 to E00) from Main Menu.
- [OUT] ① Move to Main Menu from each Adjustment Menu.
- [DIAL] (JOG mode) ① Move the cursor “ * ” for select the each items.
- [SHIFT] + [DIAL] ① Change the adjustment value or select the selecting item.
 (Increase adjustment value by turn Search Dial to clockwise and decrease
 adjustment value by turn Search Dial to counter-clockwise.)
- [SHIFT] + [IN]/[OUT] ① Change the adjustment value or select the selecting item.
 (Increase adjustment value by press “SHIFT” + “OUT” button.)
 (Decrease adjustment value by press “SHIFT” + “IN” button.)

< Store the adjustment and setting value to the memory >

When the menu is escape from Adjustment menu after change the data, the each data are write to the memory.

< Default function >

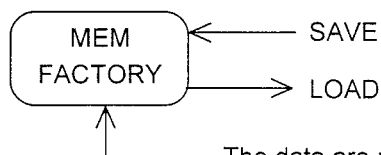
This menu have default function on the B00 : RF ADJUST, C00 : EQ ADJUST, C00 : EQ ADJUST (DV) and D00 : VIDEO ADJUST menu.

Press “IN” button after select the item of DEFAULT, appear the message as indicated as below.

* DEFAULT SAVE EQ
 DEFAULT LOAD EQ

Set the cursor “ * ” to SAVE or LOAD and press In button, then execute the program.

In case of press OUT button, cancel the command and return to ADJUST menu.



↑ The data are renewed, when the menu is move the Main Menu from ADJUST menu.

The AJ-LT75 have only one memory area for the service menu, the factory data is renewed without executed default function.

The previous value are displayed, when the LOAD function is executed after the value changed on the ADJUST menu.

A00 : SERVO

No.	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
A01	T OFFSET	-128 to 127	Torque Command Offset Adj. of T REEL	
A02	S OFFSET	-128 to 127	Torque Command Offset adj. of S REEL	
A03	T TORQUE	-128 to 127	Correct the offset value of T REEL MOTOR DRIVE	
A04	S TORQUE	-128 to 127	Correct the offset value of S REEL MOTOR DRIVE	
A05	TENSION OFST	-128 to 127	Tension offset adj.	
A06	PG RISE CORS FINE	0 to 15 0 to 255	PG SHIFTER AUTO adj.	
A07	FILE CORS FINE	0 to 15 0 to 255	PG SHIFTER AUTO adj.	
A08	PB LINEAR P	$\frac{0}{1}$ ON	LISTA LINEARITY Adj. (PB HEAD) for DVCPRO	
A09	RP LINEAR P	$\frac{0}{1}$ ON	LISTA LINEARITY Adj. (RP HEAD) for DVCPRO	
A10	PB LINEAR P	$\frac{0}{1}$ ON	LISTA LINEARITY Adj. (RP HEAD) for DV	
A11	MOTOR CHECK	$\frac{0}{1}$ OFF 1 CAPS 2 DRUM 3 T REEL	Check the motor operation.	
A12	PB GAIN P	-128 to 127	LISTA SENSITIVITY adj. (PB HEAD) for DVCPRO	
A13	RP GAIN P	-128 to 127	LISTA SENSITIVITY adj. (RP HEAD) for DVCPRO	
A14	RP GAIN	-128 to 127	LISTA SENSITIVITY adj. (RP HEAD) for DV.	
A15	DVCAM ENA	0 OFF 1 ON	SELECT THE DVCAM FORIYAT CASSETTE	

B00 : RF ADJUST

NO	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
B01	REC CURR L	-128 to +127	SETTING OF REC CURR (RP Lch)	Elec. Adj
B02	REC CURR R	-128 to +127	SETTING OF REC CURR (RP Rch)	Elec. Adj
B03	REC FREQ L	-128 to +127	SETTING OF REC FREQ (RP Lch)	Elec. Adj
B04	REC FREQ R	-128 to +127	SETTING OF REC FREQ (RP Rch)	Elec. Adj
B05	RP PHASE L	-128 to +127	RP Lch PLAYBACK PHASE CORRECTION	
B06	RP PHASE R	-128 to +127	RP Rch PLAYBACK PHASE CORRECTION	
B07	PB PHASE L	-128 to +127	PB Lch PLAYBACK PHASE CORRECTION	
B08	PB PHASE R	-128 to +127	PB Rch PLAYBACK PHASE CORRECTION	
B09	RP MAG L	-128 to +127	RP Lch PLAYBACK OUTPUT GAIN CORRECTION	
B10	RP MAG R	-128 to +127	RP Rch PLAYBACK OUTPUT GAIN CORRECTION	
B11	PB MAG L	-128 to +127	PB Lch PLAYBACK OUTPUT GAIN CORRECTION	
B12	PB MAG R	-128 to +127	PB Rch PLAYBACK OUTPUT GAIN CORRECTION	
B13	TRACKING MOD	0 ATF 1 CTL	SELECTION OF TRACKING CONTROL MODE * This function is only active on the service Menu mode.	
B14	TRACKING VAL	-128 to +127 Initial: 0	" IN CASE OF SELECT THE CTL MODE ON ABOVE ITEM C20, TRACKING VALUE IS ADJUSTABLE" * TRACKING VALUE RANGE DATA 0 - 116 : RELATIVE TO 1 TRACK THEREFORE 0 TO 127 IS RELATIVE TO JUST OVER 18	
B15	REC OPTIMAIZ	0 STOP 1 START		* NOT USED
B16	DEFAULT	0 LOAD 1 SAVE	LOAD THE LAST ADJUSTMENT VALUE SAVE THE ADJUSTMENT VALUE	

b00 : RF ADJUST (DV)

NO	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
b05	RP PHASE L	-128 to +127	RP Lch PLAYBACK PHASE CORRECTION	
b06	RP PHASE R	-128 to +127	RP Rch PLAYBACK PHASE CORRECTION	
b09	RP MAG L	-128 to +127	RP Lch PLAYBACK OUTPUT GAIN CORRECTION	
b10	RP MAG R	-128 to +127	RP Rch PLAYBACK OUTPUT GAIN CORRECTION	

C00 : EQ ADJUST

NO	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
C01	RP GAIN L	-128 to +127	RP Lch EQ GAIN Adj.	Elec. Adj
C02	RP GAIN R	-128 to +127	RP Rch EQ GAIN Adj.	Elec. Adj
C03	RP PHASE L	-128 to +127	RP Lch EQ PHASE Adj.	Elec. Adj
C04	RP PHASE R	-128 to +127	RP Rch EQ PHASE Adj.	Elec. Adj
C05	RP AEQ	-128 to +127	RP AUTO EQ Adj.	Elec. Adj
C06	RP MAIN DL	-128 to +127	RP EQ DELAY LINE Adj.	Elec. Adj
C08	RP PLL SLICE	-128 to +127	RP PLL SLICE LEVEL Adj.	Elec. Adj
C09	RP PLL VCO	-128 to +127	RP PLL VCO Adj.	
C10	RP PLL PHASE	-128 to +127	RP PLL PHASE Adj.	Elec. Adj
C11	PB GAIN L	-128 to +127	PB Lch EQ GAIN Adj.	Elec. Adj
C12	PB GAIN R	-128 to +127	PB Rch EQ GAIN Adj.	Elec. Adj
C13	PB PHASE L	-128 to +127	PB Lch EQ PHASE Adj.	Elec. Adj
C14	PB PHASE R	-128 to +127	PB Rch EQ PHASE Adj.	Elec. Adj
C15	PB AEQ	-128 to +127	PB AUTO EQ Adj.	Elec. Adj
C16	PB MAIN DL	-128 to +127	PB EQ DELAY LINE Adj.	Elec. Adj
C17	PB GAIN P	-128 to +127	LISTA SENSITIVITY Adj.	
C18	PB PLL SLICE	-128 to +127	PB PLL SLICE LEVEL Adj.	Elec. Adj
C19	PB PLL VCO	-128 to +127	PB PLL VCO Adj.	
C20	PB PLL PHASE	-128 to +127	PB PLL PHASE Adj.	Elec. Adj
C21	VTB GAIN	-31 to +32	VITABI A/D INPUT LEVEL Adj.	Elec. Adj
C22	ECC MODE	<u>0 ALL ON</u> 1 OT OFF 2 AL OFF	ERROR CORRECTION INNER ON/OUTER ON ERROR CORRECTION INNER ON/OUTER OFF ERROR CORRECTION INNER OFF/OUTER OFF	
C23	CONCEAL MODE	<u>0 ON</u> 1 OFF	ERROR CONCEALMENT ON ERROR CONCEALEMENT OFF ※This CONCEAL MODE function is only effective, when the above ECC MODE set to "ALL ON".	
C24	VITABI MODE	<u>0 AUTO</u> 1 ON 2 OFF	VITABI ON VITABI ON VITABI OFF	
C25	PB MODE	<u>0 PB H</u> 1 RP H	FORCED PB HEAD PLAYBACK FORCED RP HEAD PLAYBACK	
C26	ERROR MODE	<u>0 FAST</u> 1 SLOW	ERROR DISPLAY MODE "FAST" ERROR DISPLAY MODE "SLOW"	
C27	EQ AUTO ADJ	<u>0 STOP</u> 1 START	PB EQUALIZER AUTO Adj.	* NOT USED

C28	CLOCK NO.	0 to 63	SET THE VITERBI CLOCK NUMBER.	
C29	DEFAULT	0 LOAD 1 SAVE	LOAD THE LAST ADJUSTMENT VALUE SAVE THE ADJUSTMENT VALUE	

c00 : EQ ADJUST (DV)

NO	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
c11	PB GAIN L	-128 to +127	PB Lch EQ GAIN Adj.	Elec. Adj
c12	PB GAIN R	-128 to +127	PB Rch EQ GAIN Adj.	Elec. Adj
c13	PB PHASE L	-128 to +127	PB Lch EQ PHASE Adj.	Elec. Adj
c14	PB PHASE R	-128 to +127	PB Rch EQ PHASE Adj.	Elec. Adj
c15	PB AEQ	-128 to +127	PB AUTO EQ Adj.	Elec. Adj
c16	PB MAIN DL	-128 to +127	PB EQ DELAY LINE Adj.	Elec. Adj
c17	PB GAIN P	-128 to +127	LISTA SENSITIVITY Adj.	
c18	PB PLL SLICE	-128 to +127	PB PLL SLICE LEVEL Adj.	Elec. Adj
c19	PB PLL VCO	-128 to +127	PB PLL VCO Adj.	
c20	PB PLL PHASE	-128 to +127	PB PLL PHASE Adj.	Elec. Adj
c21	VTB GAIN	-31 to +32	VITABI A/D INPUT LEVEL Adj.	Elec. Adj
c22	ECC MODE	<u>0 ALL ON</u> 1 OT OFF 2 AL OFF	ERROR CORRECTION INNER ON/OUTER ON ERROR CORRECTION INNER ON/OUTER OFF ERROR CORRECTION INNER OFF/OUTER OFF	
c23	CONCEAL MODE	<u>0 ON</u> 1 OFF	ERROR CONCEALMENT ON ERROR CONCEALEMENT OFF ※This CONCEAL MODE function is only effective, when the above ECC MODE set to "ALL ON".	
c24	VITABI MODE	<u>0 AUTO</u> 1 ON 2 OFF	VITABI ON VITABI ON VITABI OFF	
c25	PB MODE	<u>0 PB H</u> 1 RP H	FORCED PB HEAD PLAYBACK FORCED RP HEAD PLAYBACK	
c26	ERROR MODE	<u>0 FAST</u> 1 SLOW	ERROR DISPLAY MODE "FAST" ERROR DISPLAY MODE "SLOW"	
c27	EQ AUTO ADJ	<u>0 STOP</u> 1 START	PB EQUALIZER AUTO Adj.	* NOT USED

D00 : VIDEO ADJUST

NO	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
D01	PR BAL	-128 to +127	SETTING PR BALANCE OF VIDEO OUTPUT	
D02	PB BAL	-128 to +127	SETTING PB BALANCE OF VIDEO OUTPUT	
D03	SET UP OFST	-128 to +127	SETTING OF SET UP LEVEL	
D04	V LEV OFST	-128 to +127	SETTING OF VIDEO OUTPUT LEVEL	
D05	HUE OFST	-128 to +127	SETTING HUE OFFSET BALUE OF VIDEO OUTPUT	
D06	REC PR BAL	-128 to +127	SETTING OF REC Pr LEVEL	
D07	REC PB BAL	-128 to +127	SETTING OF REC Pb LEVEL	
D08	Y CLAMP DC	-128 to +127	SETTING VOLTAGE OF RECORDING Y CLAMP	
D09	CPS Y LEV	-128 to +127	SETTING OF RECORDING Y LEVEL	
D10	AXIS	-128 to +127	SETTING OF RECORDING CHROMA PHASE	
D11	C LEV	-128 to +127	SETTING OF RECORDING CHROMA LEVEL	
D12	CPN Y LEV	-128 to +127	SETTING OF COMPONENT Y LEVEL (PAL)	
D13	SCH	-128 to +127	SETTING OF SCH	
D14	S CH P	-128 to +127	SETTING OF SCH PHASE	
D15	REC PR LEV	-128 to +127	SETTING OF RECORDING Pr LEVEL	
D16	REC PB LEV	-128 to +127	SETTING OF RECORDING Pb LEVEL	
D17	SYNC 0	-128 to +127	SET THE VIDEO PHASE OF RECORDING SIGNAL	
D18	BLC DC	-128 to +127	SET THE BLANKING LEVEL OF PLAYBACK SIGNAL	
D19	PR OUT LEV	-128 to +127	SET THE Pr LEVEL OF PLAYBACK SIGNAL	
D20	PB OUT LEV	-128 to +127	SET THE Pb LEVEL OF PLAYBACK SIGNAL	
D21	C DELAY	-128 to +127	SET THE CHROMA DELAY QUANTITY OF PB SIGNAL	
D22	SET UP ADD	-127 to +127	SET THE SET UP LEVEL on SET UP ADD condition	※NOT USED
D23	V LEV ADD	-127 to +127	SET THE VIDEO LEVEL on SET UP ADD condition	※NOT USED
D24	Y CLAMP CUT	-127 to +127	SET THE LEVEL on SET UP CUT condition	※NOT USED
D25	C LEV CUT	-127 to +127	SET THE CHAROHA LEVEL on SET UP CUT condition	※NOT USED
D26	CPS LEV CUT	-127 to +127	SET THE Y LEVEL on SET UP CUT condition	※NOT USED
D27	V SET UP	0 OFF 1 ON	Select the display V IN SET UP and V OUT SET UP on the SET UP menu	※NOT USED
D28	DEFAULT	0 SAVE 1 LOAD	SAVE THE ADJUSTMENT VALUE LOAD THE LAST ADJUSTMENT VALUE	

E00 : SYSTEM ADJUST

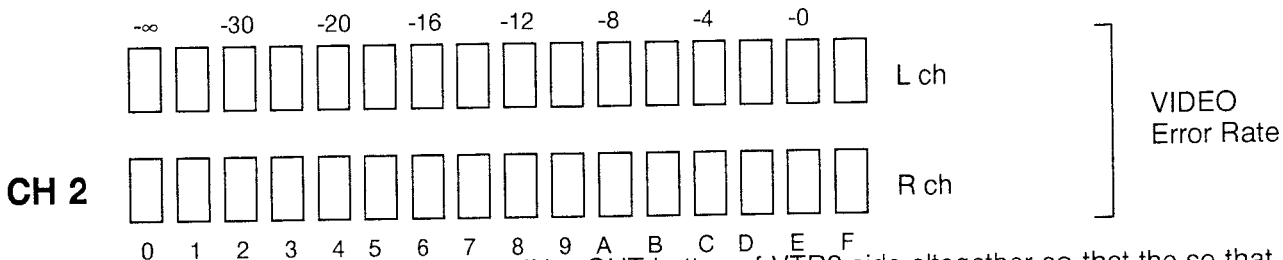
NO	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
E01	DOLBY NR	<u>0 ON</u> 1 OFF	SETTING OF DORBY NT	
E02	UNDER CUT ADJ	0 ~ 255	ADJUST THE UNDER CUT VOLTAGE [OPERATION] 1. PRESS THE "SHIFT" BUTTON. 2. MEMORIZED ADJUSTMENT VALUE, WHEN RELEASE THE "SHIFT" BUTTON.	※Response Only VTR1.
E03	LCD COLOR	-5 TO 15 INITIAL : 0	ADJUSTMENT OF LCD COLOR	
E04	LCD HUE	-5 TO 15 INITIAL : 0	ADJUSTMENT OF LCD HUE	
E05	LCD CONT .	-5 TO 15 INITIAL : 0	ADJUSTMENT OF LCD CONTRAST	
E06	LCD B LIGHT	-5 TO 15 INITIAL : 0	ADJUSTMENT OF LCD BACK LIGHT	
E07	S PHOTO	<u>0</u> 1	SELECT THE SENSITIVITY OF S PHOTO SENSOR	
E08	T PHOTO	<u>0</u> 1	SELECT THE SENSITIVITY OF T PHOTO SENSOR	
E09	MID M CAS	<u>0 OFF</u> 1 START	MOVE THE CASSETTE HOLDER TO MIDDLE (SENSOR) POSITION OF FRONT LOADING UNIT.	
E10	AUD VCO CHK	<u>0 OFF</u> 1 48KHz 2 44KHz 3 32KHz	SELECT THE ADJUSTMENT MODE OF SAMPLING FREQUENCY OF AUDIO	

6. Error Rate Display Procedure

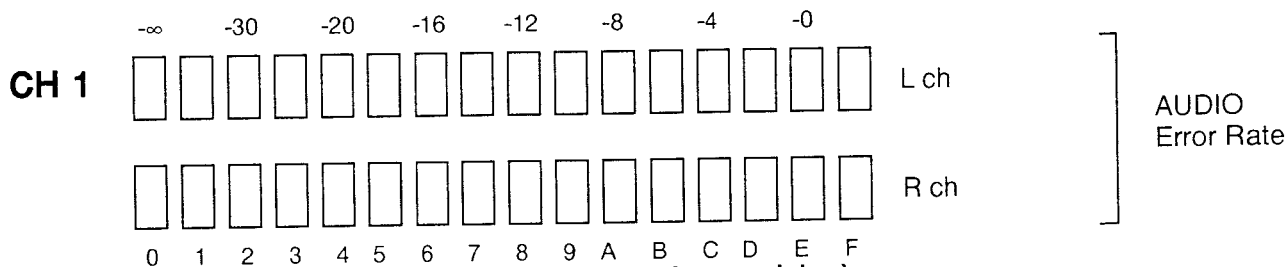
here are 2 ways to display the error rate as follows,

*Display procedure without opening the service menu. (During normal operation)

- Set the REMOTE/LOCAL SW to REMOTE side.
- Press IN + OUT button of VTR1 side and press IN button of VTR2 side altogether so that the Audio Level Meter changes into the VIDEO Error Rate Display.



3. Press OUT button of VTR1 side and press IN + OUT button of VTR2 side altogether so that the so that the Audio Level Meter changes into the AUDIO Error Rate Display.



Display procedure with opening the service menu. (During servicing)

- Press ENTER/SHIFT + EDIT button of VTR1 side so that the User Set Up Menu is opened.
- Press ENTER/SHIFT + FF + REW button of VTR1 side so and “REW” + “FF” button of the VTR2 side simultaneously, that the Service Menu is opened.
- Select C00 (c00) : EQ ADJUST by Jog Dial and press IN button of VTR1 side so that the Audio Level Meter changes into the VIDEO Error Rate Display automatically.
- Open the Service Menu of VTR2 side using same procedure as VTR1.

Note: Open the EQ ADJUST Menu of VTR1 when confirm the VTR2 error rate.

How to confirm the Error Rate

Set the item on EQ ADJUST menu as shown below

MENU		DVC PRO (PB)	DV (R/P)
C22	ECC MODE	AL OFF	AL OFF
C23	CONCEALMODE	AFF	OFF
C24	VITABI MODE	AUTO	ON
C25	PB MODE	PB H	PR H
C26	ERROR MODE	SLOW	SLOW

Note: With above contents set automatically, when set the error rate display mode during normal operation.

※ Please refer to condition of the error rate follow the tape format and VTR mode, indicated as below.

	VTR mode	Standard of Error Rate
DVCPRO (PB)	Alignment tape playback	Under the “6” position at level meter
DV (R/P)	Alignment tape playback	Under the “D” position at level meter

7. Adjustment Items After Exchange the Major P. C. Board

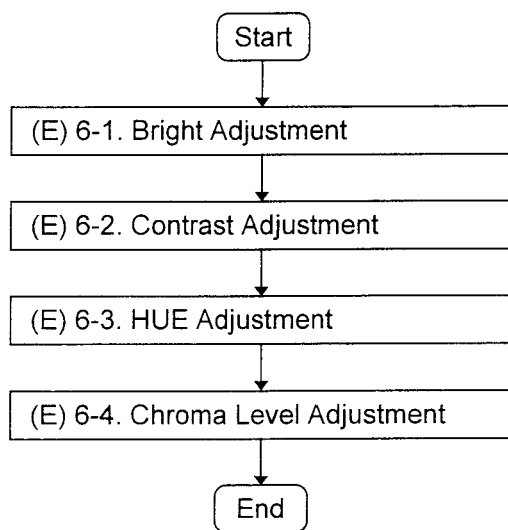
P. C. Board	Adjustment	Remarks
DD CONV 1, 2	YES	Minor adj. necessary
SERVO	YES	Regular adj. necessary by Digital Board
DIGITAL 1, 2	YES	Difficult to do exchange, because major adj. needed
ANALOG 1, 2	YES	Difficult to do exchange, because major adj. needed
RF AMP	YES	REC Current Adj. necessary
AV SYSCON	NO	Please confirm Syscon ROM version
KEY BOARD	NO	
DISPLAY CONTROL	NO	
DISPLAY	YES	Minor adj. Necessary
LCD CONTROL R, L	NO	
ENCODER VR R, L	NO	

- * The following flowchart number is adjustment number of the service manual.
- * (E) is for electrical adjustment, (M) is for mechanical adjustment.
- * If there is a PROM on the P. C. Board, please confirm the software version. Please refer to the Operating Instructions or section 4 of Service Manual.
- * There is a data RAM (IC2) on the Keyboard. Please remove the IC2 and put it to the new keyboard or please write down all of user data and service data before exchange the Keyboard and input the data to the new data RAM. When input the data to the new RAM, hour meter information will be reset.

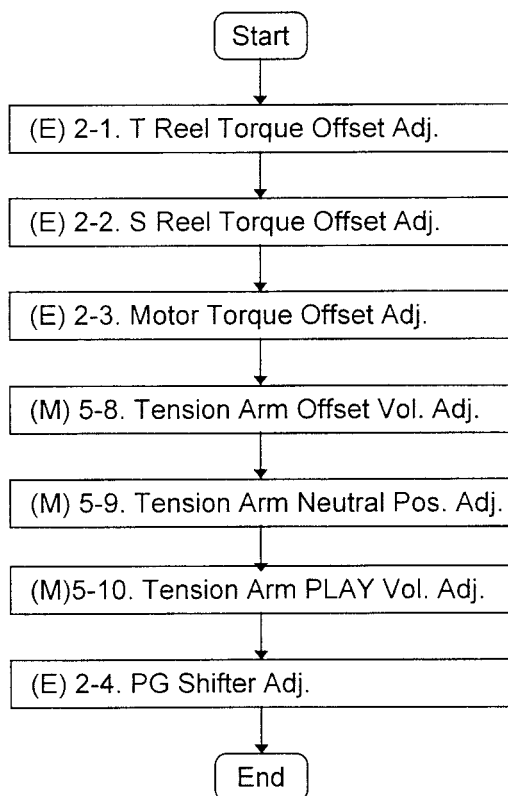
PROM Reference Number

VTR1	VTR2
DISPLAY IC1 (DISPLAY CONT)	KEYBOARD IC1 (KEYBOARD)
AV SYSCON IC102 (SYSCON)	AV SYSCON IC802 (SYSCON)
SBC IC1201 (DIGITAL 1)	SBC IC1601, 1501 (DIGITAL 2)
CYLINDER IC101 (SERVO)	CYLINDER IC101 (SERVO)
REEL IC201 (SERVO)	REEL IC201 (SERVO)

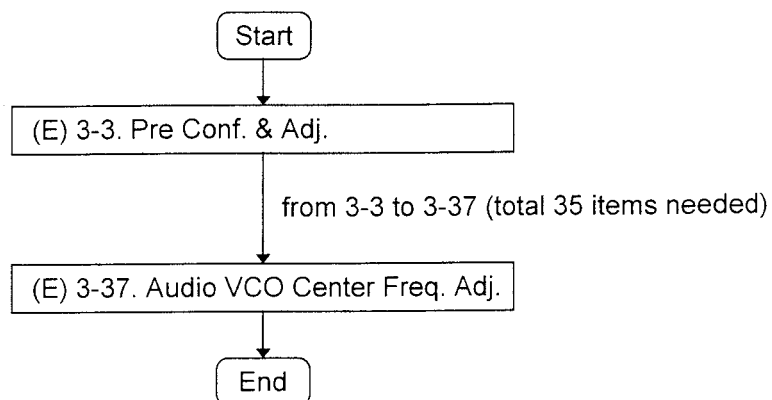
■ DD CONV. 1, 2 P. C. Board



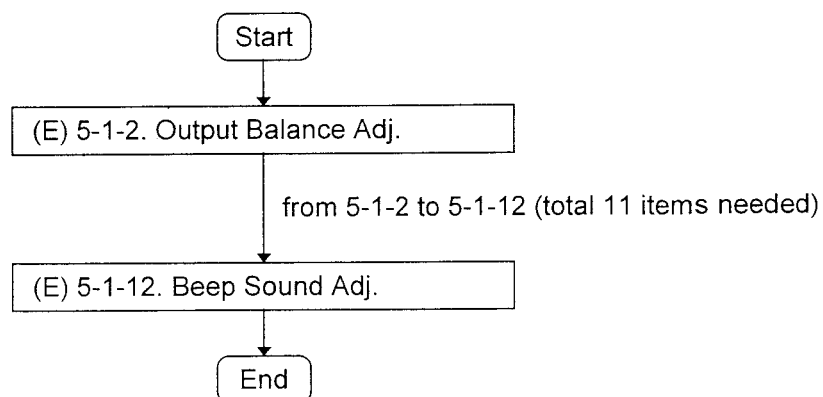
■ SERVO P. C. Board



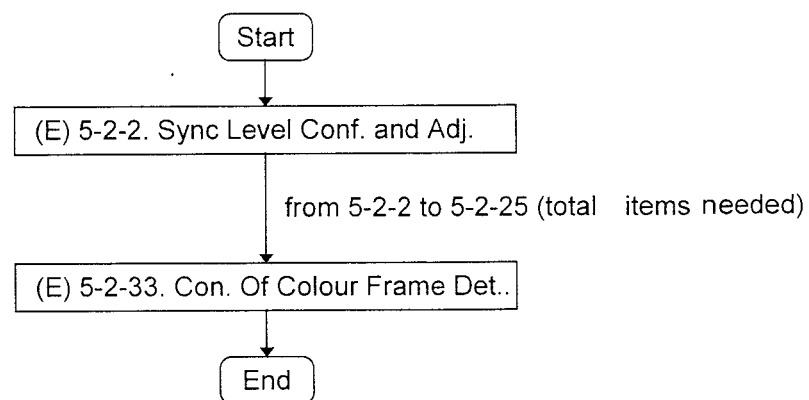
■ **DIGITAL 1, 2 P. C. Board**



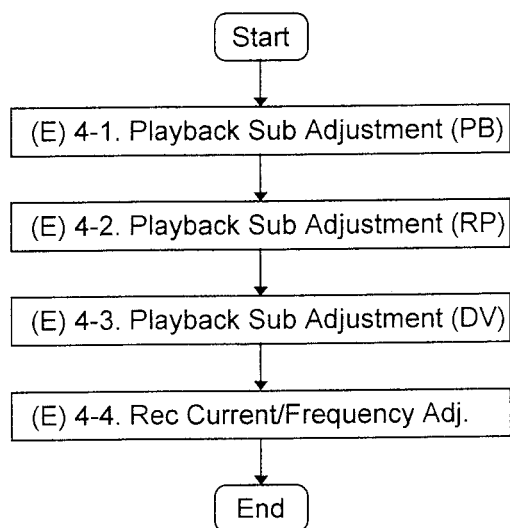
■ **ANALOG 1, 2 P. C. Board (Audio Section)**



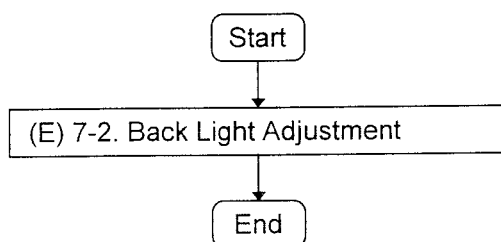
■ **ANALOG 1, 2 P. C. Board (Video Section)**



■ RF AMP P. C. Board



■ DISPLAY P. C. Board



8.FLASH ROM VERSION UP PROCEDURE

1. FLASH ROM VERSION UP REQUIREMENT.

- Flash rom version up software (VFK1248A)
- Rom Rewriter (VFK1304)
- WINDOWS Ver. 3.1 or WINDOWS 95 built in personal computer
- RS-232C cable (cross)

Note : · The VFK1304 is designed cross type specification of 9P RS232C cables.

- If you want to use the RS232C straight cables, please remove the resistor R3 and R4. And those resistors are install to pattern of R1 and R2.

2. INSTALL THE FLASH ROM VERSION UP SOFTWARE

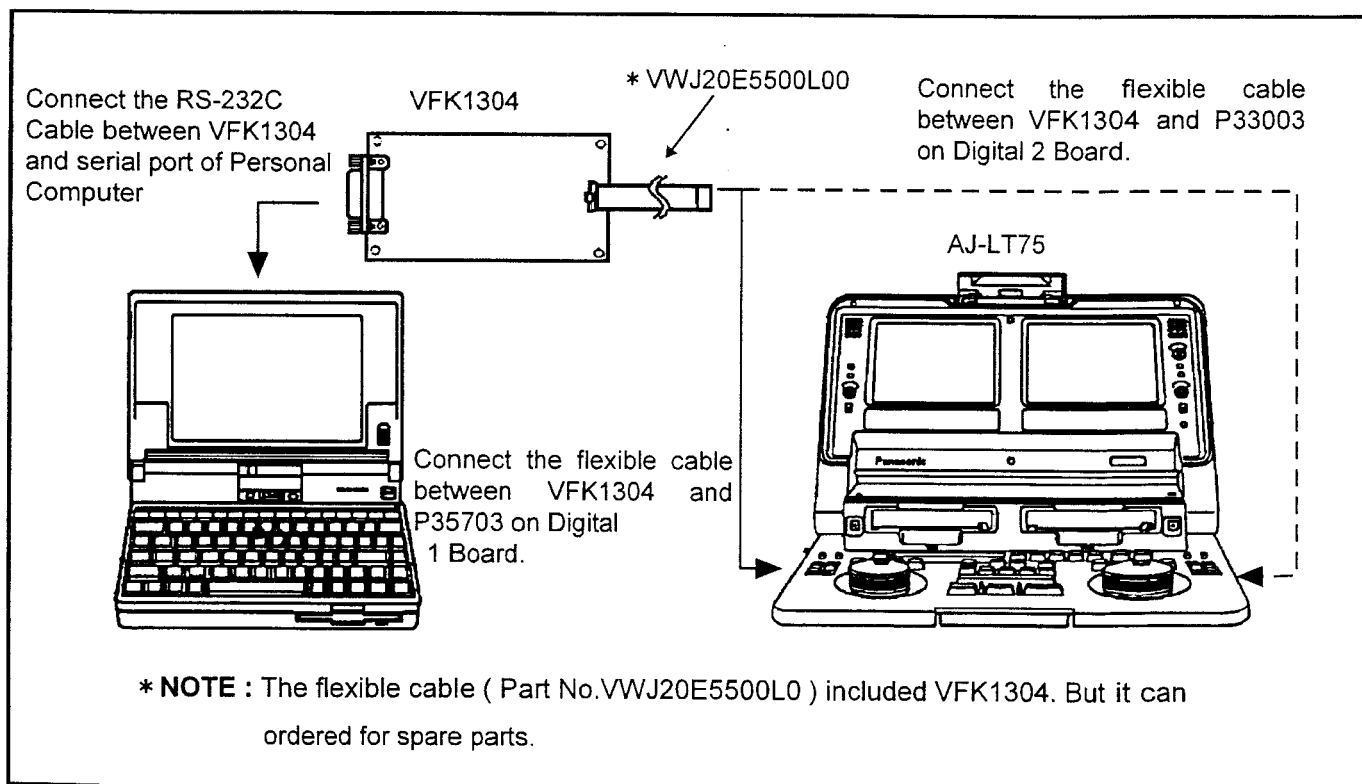
- Copy the following files to WINDOWS Ver. 3.1 or WINDOWS 95 built in personal computer.
VSI2312A.EXE (PROGRAM FILE)
VSI2312A.INI (INITIAL FILE)

3. LOADING METHOD OF FLASH ROM VERSION UP SOFTWARE

- 1) When using the WINDOWS Ver. 3.1 built in personal computer.
 - Load the file manager and double click the VSI2312A.EXE file.
 - Resistor the VSI2312A.EXE file to icon and double click it.
- 2) When using the WINDOWS 95 built in personal computer.
 - Load the explorer and double click the VSI2312A.EXE file.
 - Make the short cut of VSI2312A.EXE file and double click it.

4. CONNECTION OF ROM REWRITER.

Please connect the Rom Rewriter after turn off the power switch on AJ-LT75.



5. FLASH ROM VERSION UP PROCEDURE

- 1) Connect the Rom Writer (VFK1304) to LT75 and personal computer after turn off the power switch on AJ-LT75
- 2) Set the pin 1 and 2 of Dip Switch on the P.C.Board (VFK1304) to ON position.
- 3) Load the flash rom version up software. Then the following window is opened.

Setup Panel

TARGET MACHINE ID CHECK ☐ Off ☒ On D217

TARGET FILE NAME A:¥D217.MOT

Port: COM1 Baud Rate: 56000 Stop Bits: 1Bit Byte Size: 8Bits Parity: NONE Main Panel: ☐ Full size

Ok Browse... Default Exit(End) Cancel Version

This program is C:¥ROM_SOFT¥VSI2312A.EXE

- (4) Set the following setting on the Set Up Panel. Please type capital letter.

- TARGET MACHINE ID CHECK ----> On, D217
- TARGET FILE NAME ----> Set the new software file name with full pass or click the Browse button and select the new file. (When click the Browse button, the following window is opened.)
- Port ----> Set the personal computer COM port No.

Select target file

File name (N) : a:¥d217.mot

Directories (D) : a:¥

d217.mot

Files (T) : Hex Files (*.mot)

Drive (V) : a:

OK Cancel

☐ Overwrite (R) :

- (5) Set the Main Panel setting and then click the OK button. Main Panel is opened.
- Main Panel ---> When select the full size of Main Panel, the following window is opened. Full size Main Panel can indicate the detail information of machine status.
However it takes more time to complete the version up at the full size main Panel in comparison with small size Main Panel.

- Main Panel ---> When select the small size of Main Panel, the following window is opened.

We recommend the Main Panel setting to full size.

(6) Turn on the power switch on AJ-LT75. And confirm that the LCD is displayed abnormal. (It only occurred version up side of VTR.)

(7) If the LCD is displayed normally, if occurred connection error.
Please confirm the connection between AJ-LT75, rom rewriter and personal computer after turn off the power switch on AJ-LT75.

3) Click the OK button on the Main Panel. Rewrite the new software to flash rom after erase the flash rom. When you selected the full size Main Panel, you can confirm the detail information of machine status. When you selected the small size Main Panel, you can confirm the machine status (percentage) at title bar.

Note: · It takes about 1 minute to erase flash memory.

9) In case of no erasing or no writing when "Inquiring type of machine" on the full size Main Panel, check the RS-232C communication or TARGET MACHINE TYPE.

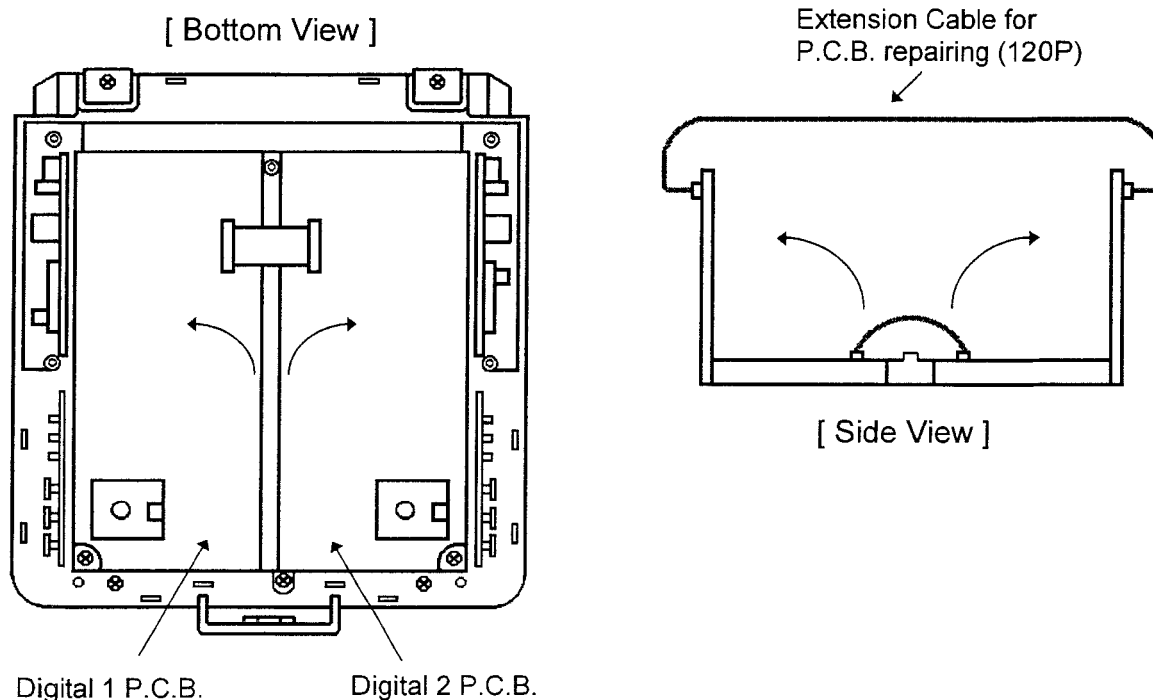
10) After finish the version up, please confirm the display of AV STS software version on the LCD. Turn the power switch to off and disconnect the Rom rewriter (VFK1304) from the LT75.

9. HOW TO USE THE EXTENSION CABLE

The AJ-LT75 use 3 kinds of extension cable for repair the some P.C.Board.

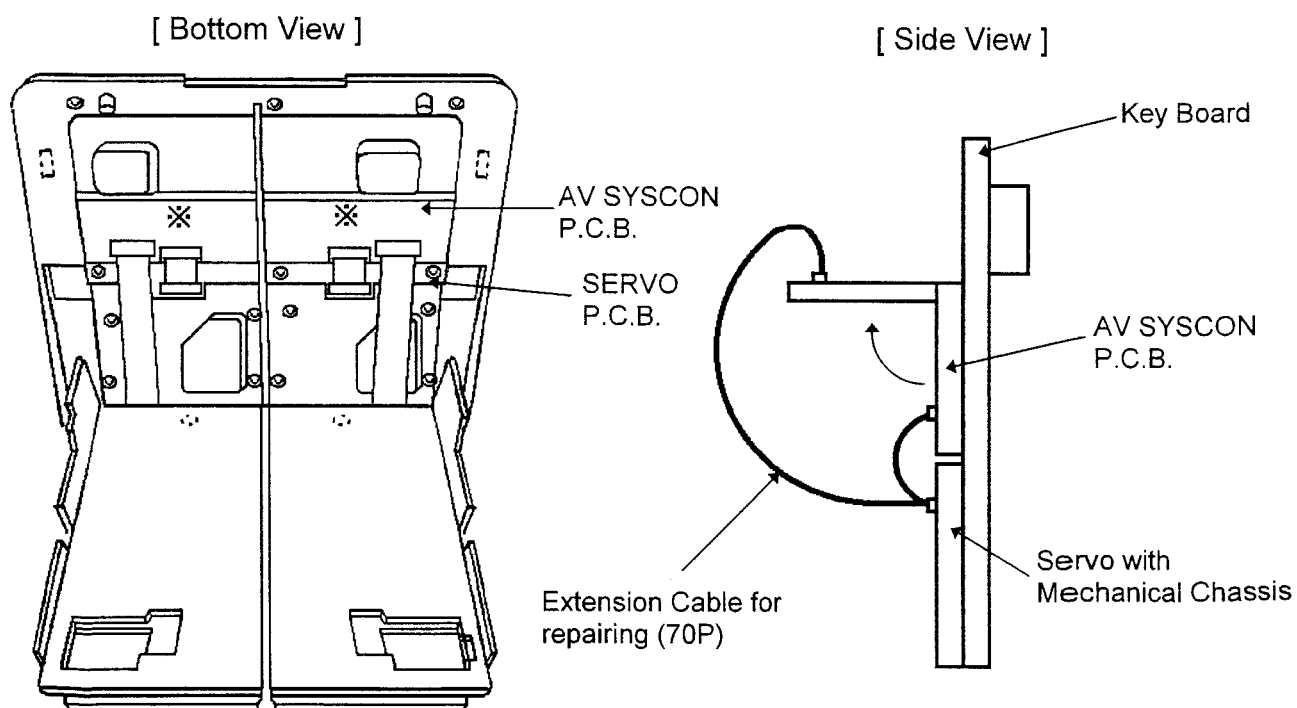
1. 120P EXTENDER (VFK1305)

·The VFK1305 is connect Digital 1 and Digital 2 P.C.Board.



2. 70P EXTENDER (VFK1307)

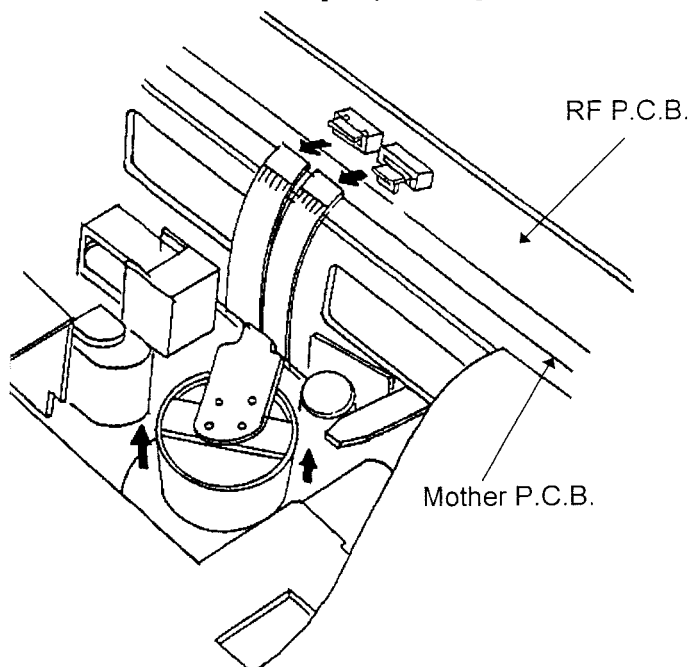
·The VFK1307 is connect AV SYSCON and SERVO P.C.Board.



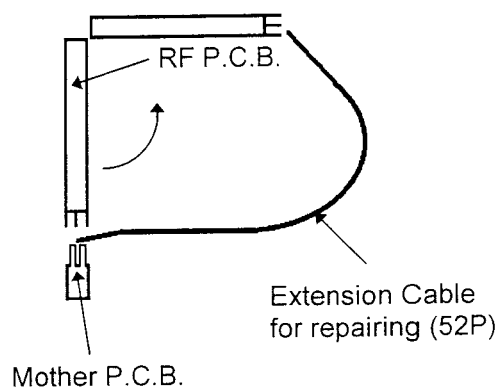
3. 52P EXTENDER (VFK1306)

- The VFK1307 is connect MOTHER and RF AMP P.C.Board.

[Top View]



[Side View]



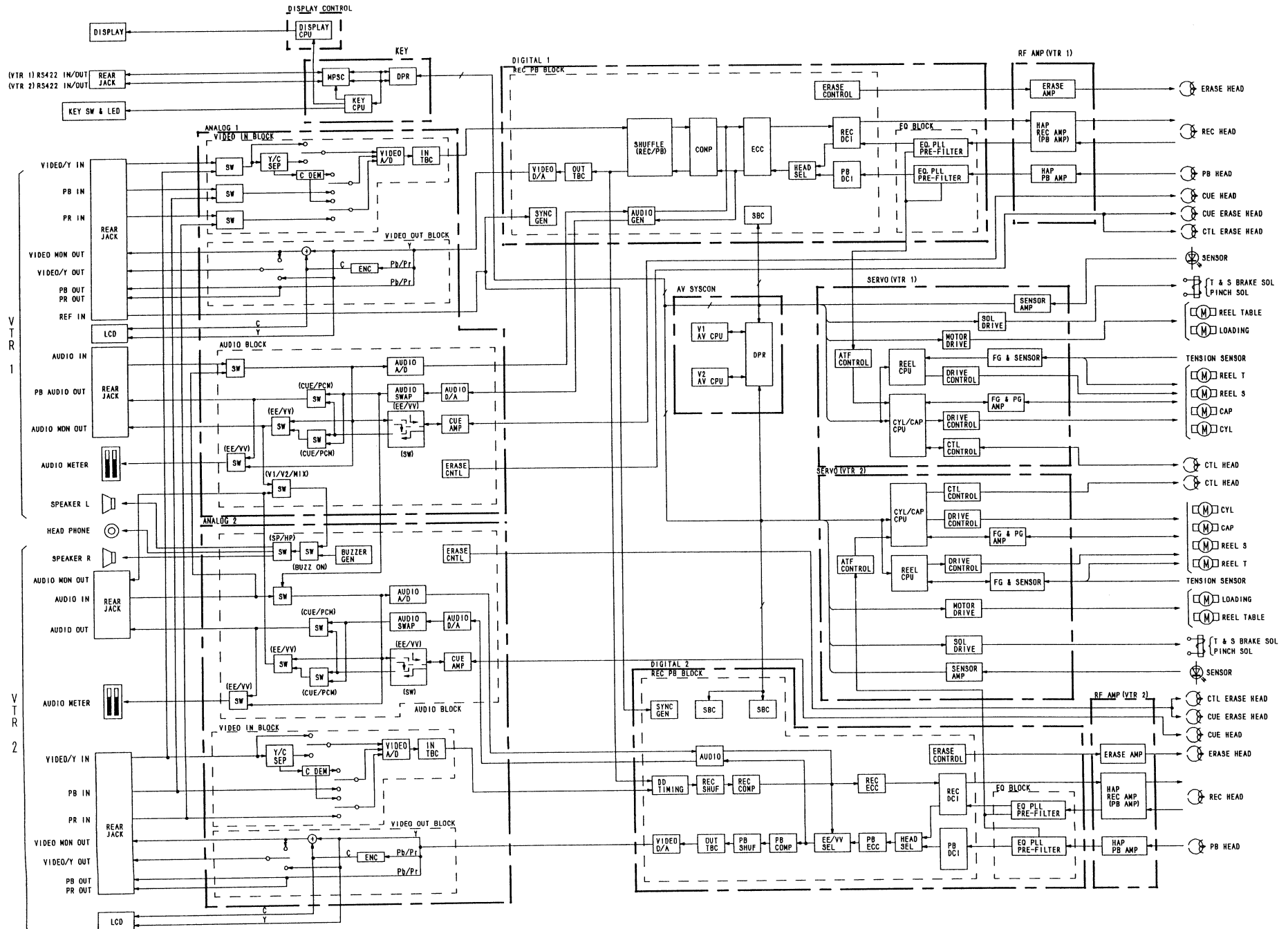
SECTION 5

BLOCK DIAGRAMS

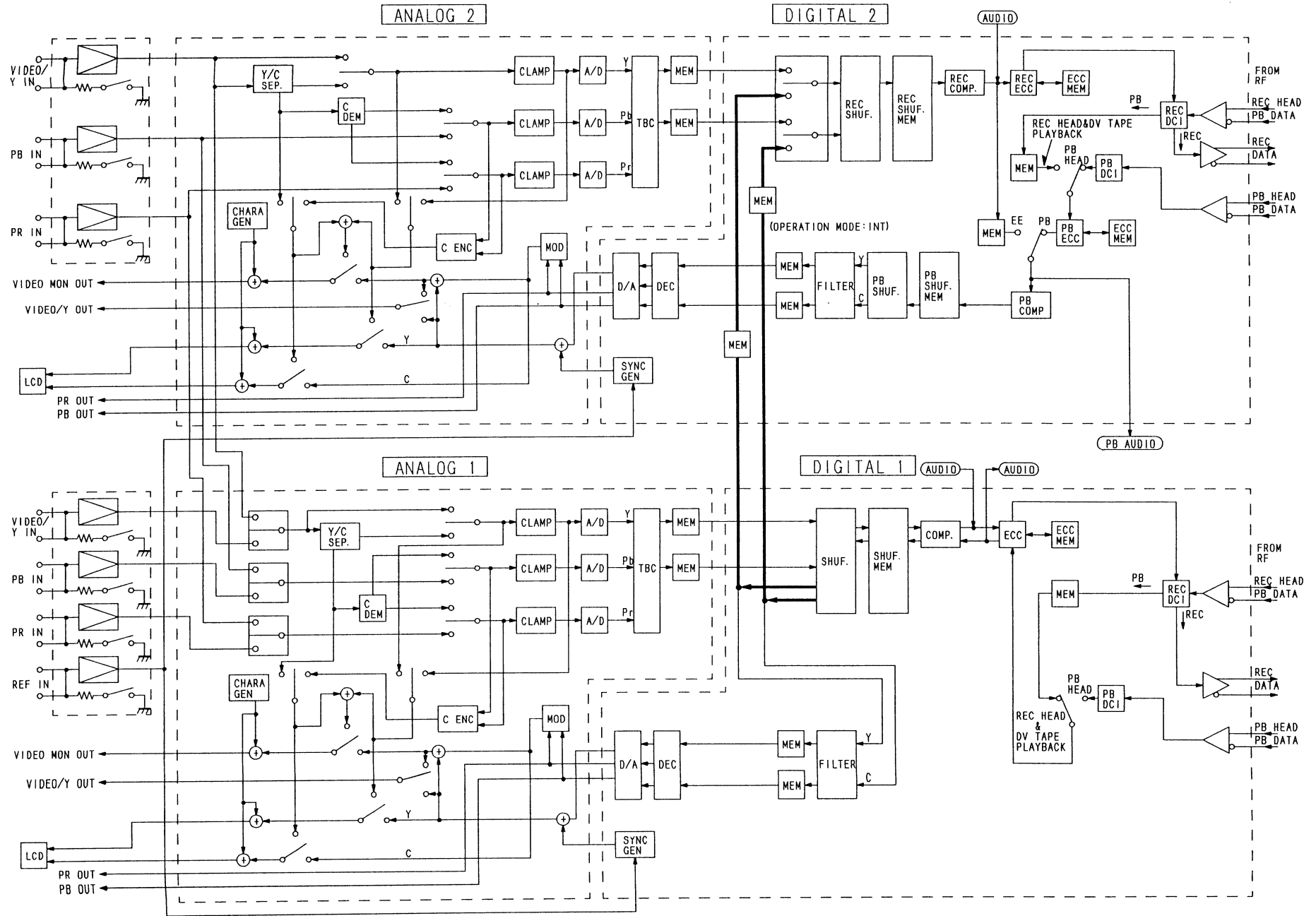
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OVERALL BLOCK DIAGRAM



VIDEO OVERALL BLOCK DIAGRAM



■VIDEO OVERALL

AJ-LT75 includes two VTRs, VTR1(left side) and VTR2(right side). Each VTR has video process circuit which is composed of Analog board and Digital board. Analog1 and Digital1 belong to VTR1, Analog2 and Digital2 belong to VTR2. Editing is available on VTR2 only.

◆VTR2

<Recording>The signal input from VIDEO/Y IN connector is supplied to Analog2 board. Main signal flow goes to YC separation. Another flow goes to Analog1 board before YC separation. It makes VTR1 possible to record signal input to VTR2, instead of VTR1, when VTR1 IN SEL menu is set to V2 IN.

After YC separation, select the Y signal Composite or Component input.. and main signal flows of Y/Pb/Pr are converted to digital. Before AD conversion select the Pr and Pb signals Composite or Component. And an another YC signal going to LCD and an output makes it possible to see input signal on LCD and VIDEO MON OUT when pressing EXT Check button.

Pb and Pr data are read out alternately at output of TBC. Then Y and C data are supplied to Digital2 board.

Digital2 has an income switching circuit at the beginning. This is why VTR2 is possible to record a played back signal in VTR1 when operation mode set to INT, internal editing.

Shuffling and video compression are done after switching income signals. Then audio is added to video and sent to ECC encoder together. Signal for E-E is separated before ECC and goes to EE/PB switch. Finally data goes to RF amp board via REC DCI.

<Playback>Playback signal comes from EQ circuit. There are 2 kinds of playback signals from REC head and PLAY head. DVCPRO playback uses PLAY head and playback data goes to PB DCI. DV playback uses REC head and playback data goes to REC DCI which works as PB DCI. One signal is selected depending on tape format and enters to PB ECC.

Video signal is expanded at PB COMP after audio is separated. The signal follows the opposite procedure against recording. Then analog composite signal is supplied to Analog2 board.

Analog2 circuit has five outputs; VIDEO/Y OUT:PR OUT:PB OUT: VIDEO MON OUT: LCD.

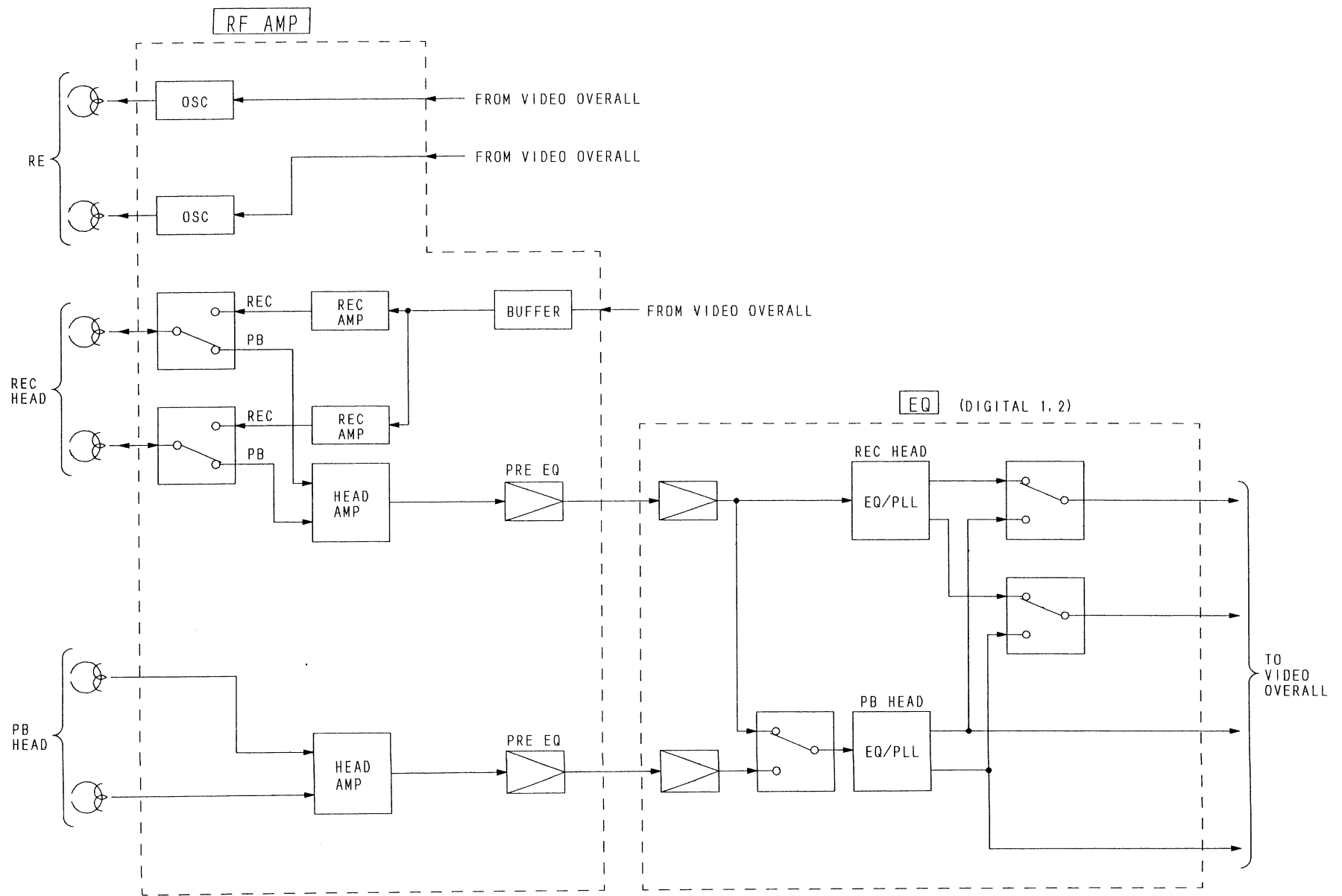
VIDEO/Y OUT outputs playback picture or E-E picture. VIDEO MON OUT and LCD output EXT CHECK picture besides playback picture and E-E picture with character.

◆VTR1

Video process of VTR1 is approximately the same as VTR2. However E-E picture is not available in VTR1, because VTR1 has only one video process shared between REC and PLAY. This is why VIDEO /Y OUT terminal of VTR1 is called PB VIDEO/Y OUT.

During internal editing, playback signal supplied from Digital1 board to Digital2 board.

RF OVERALL BLOCK DIAGRAM



■ RF OVERALL

[General]

◆ EQ

The EQ circuit compensates a frequency and a phase in the playback signal from the head to record in the best position.

There are a circuit for REC HEAD and circuit for PB HEAD.

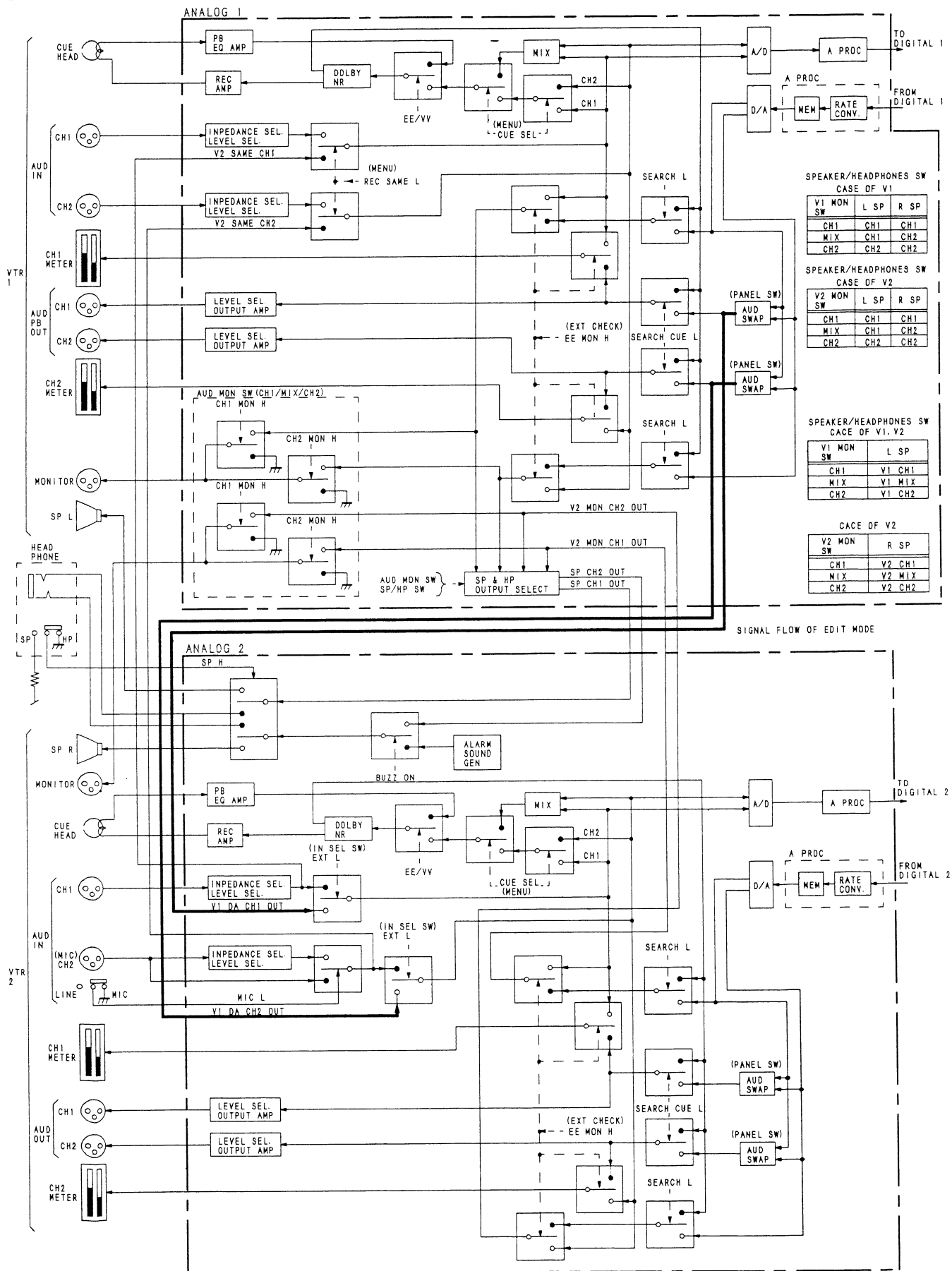
The circuit for PB HEAD has the circuit of the vitabi decoder except EQ/PLL circuit. REC HEAD is used on DV playback mode, but the signal is flow PB HEAD circuit for use the vitabi operation.

◆ RF AMP

Mainly REC process is composed REC AMP circuit and Playback process is composed Pre-EQ circuit. And also there are Rotary Erase circuit, which is generated erasure electric current by OSC control signal (OSC ON/OFF).

The erasure frequency is about 35MHz.

AUDIO OVERALL BLOCK DIAGRAM



■AUDIO OVERALL

[Outline, the characteristic]

Audio circuit of AJ-LT75 is located on the analog 1 circuit board. Signals at VTR1's side are processed on analog 1 circuit board and the ones at VTR2's side are processed on analog 2 circuit board. When internal editing is in progress, the analog audio output at VTR1's side is delivered to analog 2 circuit board from analog 1.

[Difference between Analog Circuit Board 1 (at VTR1's side) and Analog Circuit Board 2 (at VTR2's side)]

1. Audio external input at VTR2's side is also supplied to the analog 1 circuit board.
2. Analog audio output at VTR1's side is supplied to the analog 2 circuit board.
3. MIC IN Input is only supplied to analog 2 circuit board from CH2 AUDIO INPUT XLR connector at VTR2's side.
4. Output control circuits for AUDIO MONITOR and SPEAKER/HEADPHONE locate on the side of analog 1 circuit board.
5. AUDIO MONITOR output circuits for VTR 1 and VTR2 are provided on analog 1 circuit board, while SPEAKER/HEADPHONE output circuits are provided on analog 2 circuit board.

[SIGNAL FLOW]

Analog 1

The signal input from AUDIO IN connector is forwarded to the impedance selection (600ohm/HIGH) as well as to LEVEL SELECT circuit. Input level is set with the AUDIO SET UP menu on a 4/0/-20dBu basis. It is set to 0dBu upon supply.

The signal is then sent to the input selectable switch, and selection between outer inputs either at VTR1's side or VTR2's side is made through OPERATION SET UP menu. Then A/D conversion is added to the signal from REC process, and it is mixed with VIDEO data after having sent to digital 1 circuit board via audio process's IC. The analog audio input signal is recorded on the CUE track. Signals to be recorded on the CUE track is selected through CH1/MIX/CH2 and AUDIO SET UP menus and are sent to CUE head by passing through the EE/VV selectable switch.

When the PB DATA is supplied from the digital 1 circuit board is DV formatted record signal, it is converted into 48 KHz 2ch DVCPRO clock frequency instead of 32KHz 4ch during the time of reproduction. The signal, after D/A conversion is added, is sent to AUDIO SWAP circuit, and its output is determined in accordance with the setting by AUD SWAP SW on the key panel.

EE/VV selection is made to determine output for audio level meter with CUE/PCM, EXT CHECK button, and the level meter signal is then output. Audio motor signal is determined in the identical manner as the meter output, however the audio monitor signal at VTR2's side is first sent to analog 1 circuit board, and then output after passing through the AUDIO MON SW control circuit on the key panel.

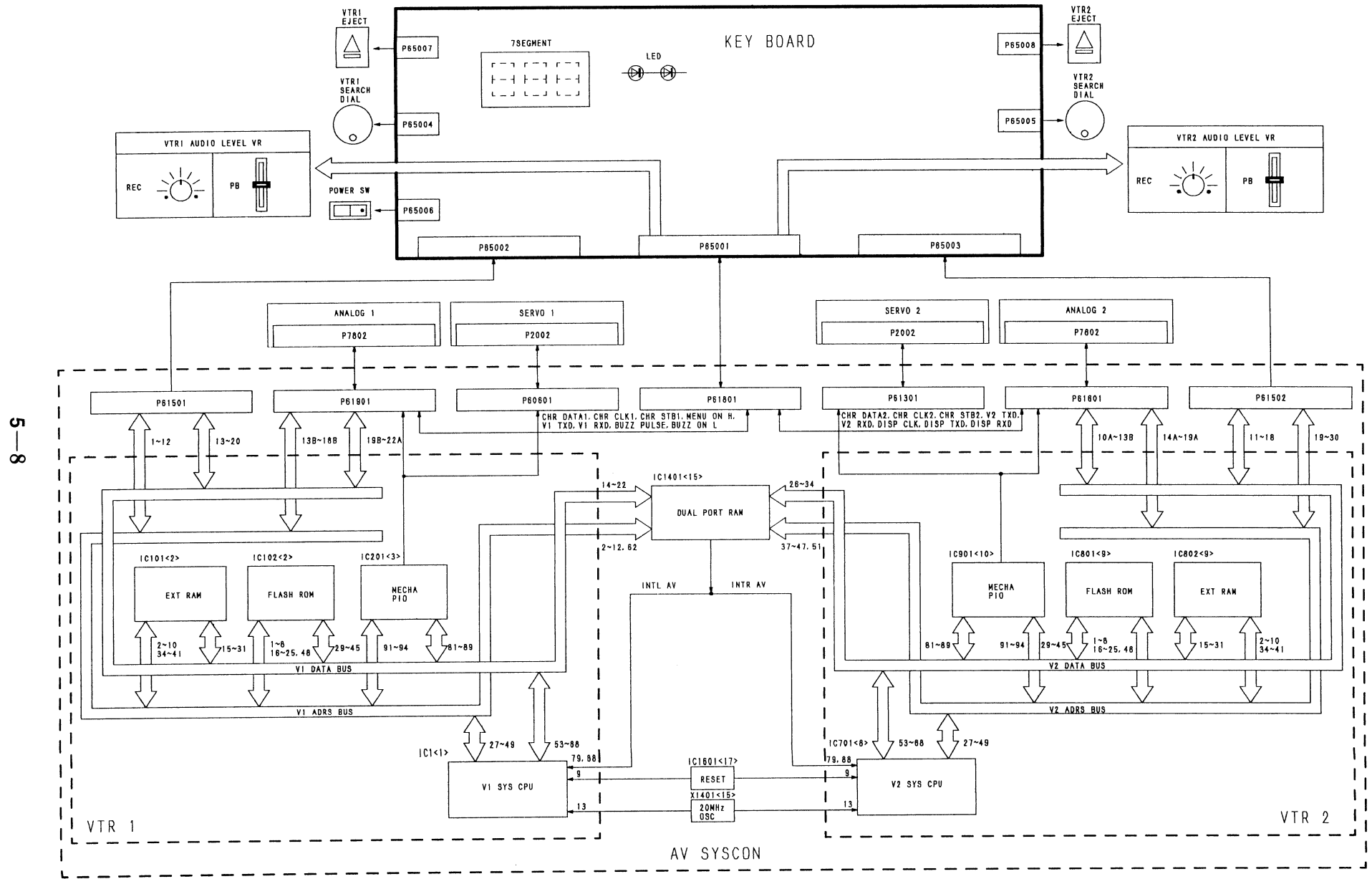
Output of SPEAKER/HEADPHONE is determined on the analog 1 circuit board with AUDIO MON and SP/HP SELECT SW, and the SP/HP signal is next sent to analog 2 circuit board.

◆Analog 2

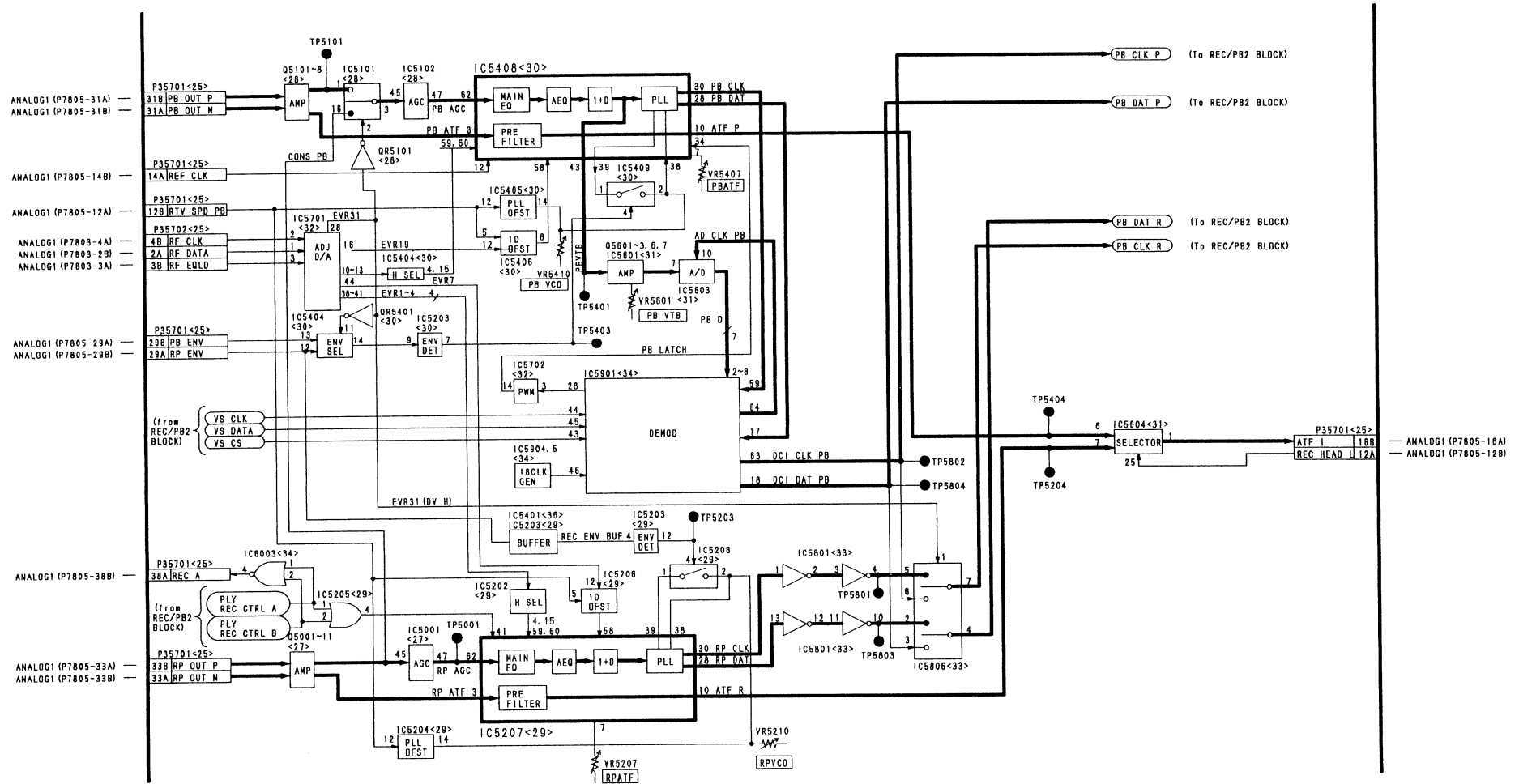
The only difference between analog 1 and analog 2 is that VTR2's side is capable of connecting MIC input with CH2 AUDIO INPUT XLR connector. MIC/LINE selectable switch is provided on the REAR PANEL, and the input does not pass through impedance, LEVEL SELECT circuit when MIC is selected.

In addition, the input unit receives analog audio output signal on the VTR1's side, and switching between audio external inputs at VTR2's side or VTR1's side is performed by OPERATION MODE SW on the key panel. Oscillating circuit to give BEEP sound is also provided on the analog circuit board so that BEEP sound can be delivered to SP/HP output line.

AV SYSCON OVERALL BLOCK DIAGRAM



EQ (DIGITAL 1) BLOCK DIAGRAM



■EQ (Digital 1)

[General]

The EQ circuit compensates a frequency and a phase in the playback signal from the head to decode in the best condition. There are a circuit for REC HEAD and a circuit for PB HEAD. The circuit for PB HEAD has the circuit of the viterbi decoder. REC HEAD is used on DV playback mode, however, PB HEAD circuit is used.

- One chip Equalizer PLL IC with delay circuit inside.

◆PB HEAD circuit

Playback signal is input to connector P35701(31A,B). Amplified signal goes two ways.

One is for ATF going to PRE FILTER(IC5408), and then to Servo board. PRE FILTER(IC5408) is composed of an amplifier and Band Pass Filter which passes 470KHz and 680KHz. ATF gain is adjusted by LISTA Sensitivity Adjustment.

The other, main signal flow, is input a switch(IC5101) where playback mode is selected, DV or DVCPRO. When DV playback mode signal comes from REC head.

MAIN EQ(IC5408) adjusts gain, phase and group delay by EVR. AUTO EQ described as AEQ(IC5408) automatically improves error rate on interchange playback.

1+D circuit(IC5408) processes interleaved NRZI modulation. When recording, $1/(1-D^2)$ is processed. This is why playback circuit must do the opposite process. Recording and playback on magnetic tape has differential characteristic of 1-D. Consequently playback circuit has only to process 1+D.

$$1/(1-D^2) \times (1-D) \times (1+D)=1$$

Clock is extracted in PLL(IC5408) and separated into PB DAT and PB CLK. IC5409 controls the PLL loop ON/OFF, normally ON. When envelope level becomes one-third times of correct level, a signal from ENV DET(IC5203) cuts loop and holds PLL. This prevents PLL from making malfunction because of low envelope level.

PB VTB, separated after 1+D, goes to DEMOD(IC5901) through AMP and A/D converter. PB DAT and PB CLK are also input to DEMOD which demodulates Viterbi. Output signals, DCI CLK PB and DCI DAT PB, are supplied to REC/PB circuit.

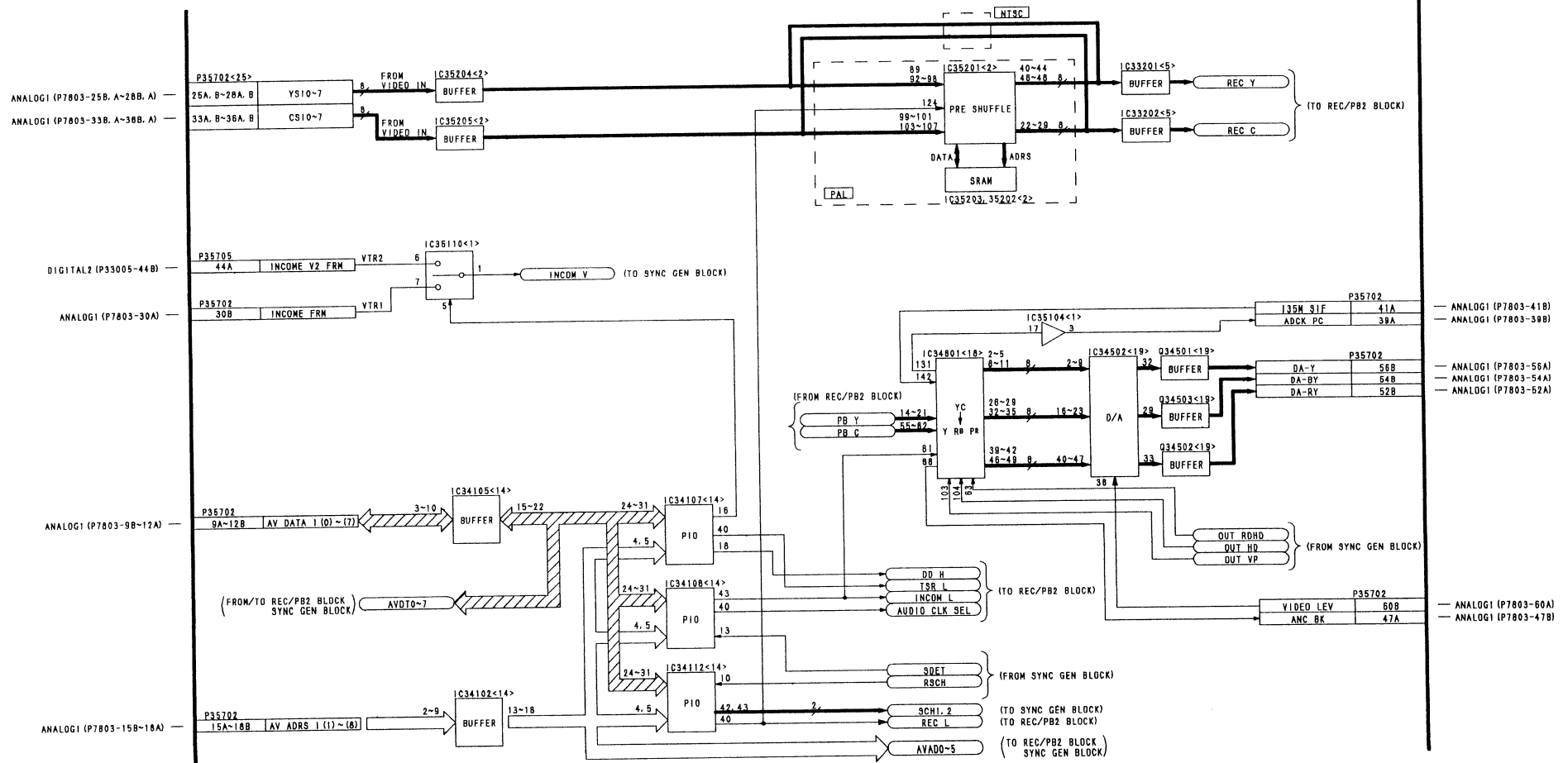
◆REC HEAD circuit

Playback signal is input to connector P35701(33A,B). Signal process is approximately same as PB HEAD circuit. The difference is that there isn't Viterbi demodulation.

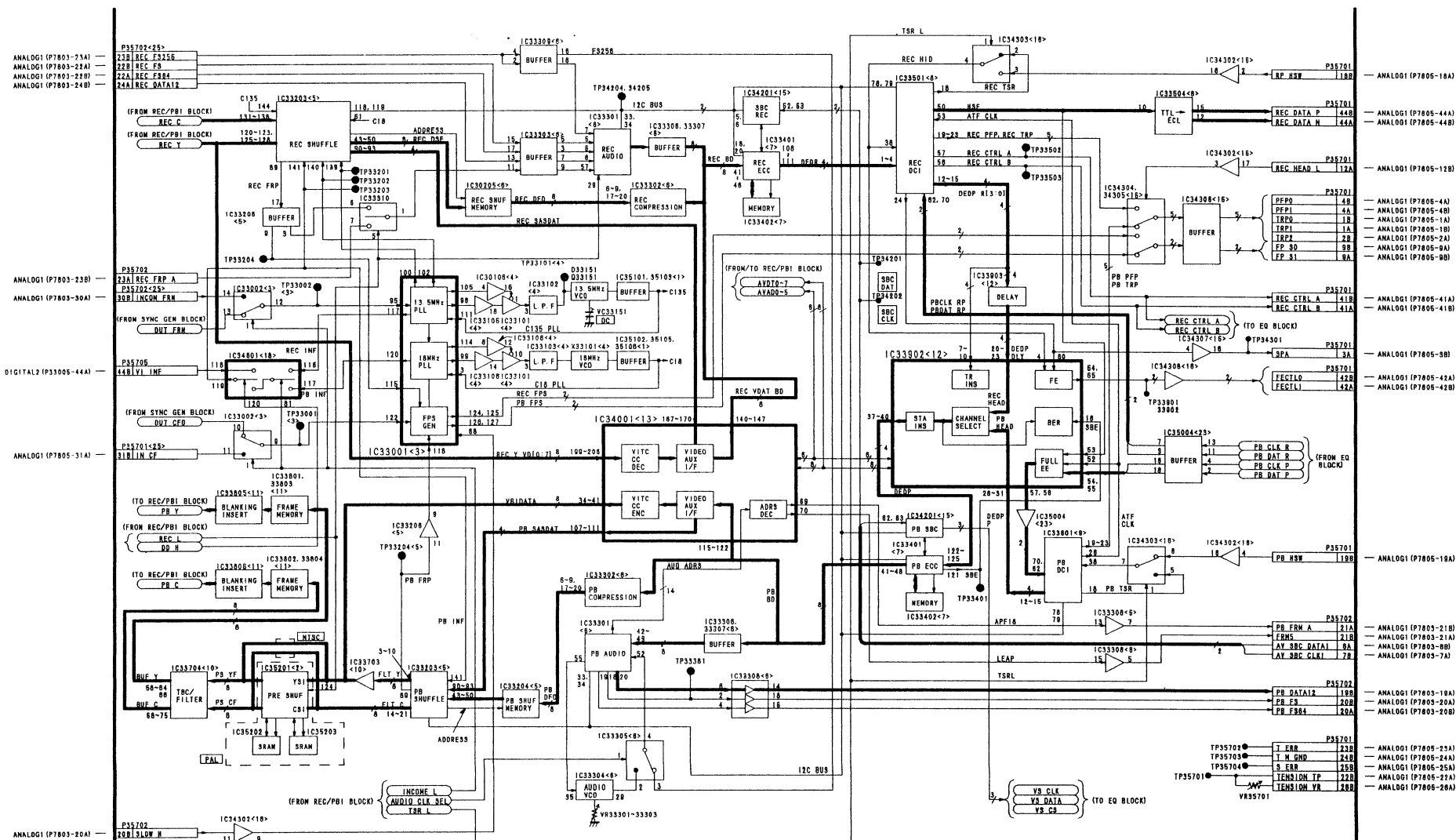
During DV playback mode the signal is picked up from REC HEAD and supplied to IC5101. The signal goes to IC5806 through PB HEAD EQ circuit. Output is supplied to REC/PB circuit as PB DAT R and PB CLK R.

Main purpose of this circuit is to increase data amount using REC HEAD playback signal during high speed playback mode.

REC/PB1 (DIGITAL 1) BLOCK DIAGRAM



REC/PB2 (DIGITAL 1) BLOCK DIAGRAM



■ REC/PB Block (Digital 1)

This circuit makes record and playback processes such as shuffling, DVCPRO compression, expansion, error correction, and the sub code signal processing.

◆ Recording

<REC/PB1 BLOCK> The signal from the Analog1 board is inputted from connector P35702 (from 25 A to 28B and 33A to 36B) and goes to REC/PB2 BLOCK. via buffer (IC33201,33202). In case of PAL pre shuffling(IC35201) is done before signal goes there.

<REC/PB2 BLOCK> Shuffling for the compression is done in REC SHUFFLE (IC33203) and REC SHUFFLE MEMORY (IC33204). REC COMPRESSION (IC33202) compresses a signal. Then it connects with the DVC bus called REC BD. It is composed with data bus and 3 control signals which are REC BQUIET, REC BDCK and REC BDEN.

An audio signal (from IC33301) and VIDEO AUX signal (from IC34001) are added to this bus. It is output to REC ECC(IC33401).

REC ECC(IC33401) does addition of error correction code, de-shuffling and addition of a sub code signal (from IC34201) using MEMORY(IC33402).

The signal is sent to REC DCI(IC33501). At the REC DCI the recorded signal is converted to 41.85 MHz serial signal which is adequate for recording. REC CTRL A(B) switches recording current of ch A(B) ON/OFF. The record signal goes from connector P35701 (from 44A and 44B) to the RF AMP board via the mother board after the change to ECL signal with TTL to ECL conversion (IC33504).

An audio signal is input from the AUDIO PROCESS circuit in Analog1 board to connector P35702 (24 A). Then an audio signal is output to the bus called REC BD through buffer (IC33306,33307) from REC AUDIO(IC33301) through buffer (IC33303).

VIDEO AUX signal is input to IC34001. It extracts and decodes VITC and a closed caption signal here. It connects with the REC BD bus as the VIDEO AUX signal.

◆ Playback

<REC/PB2 BLOCK> There are 2 kinds of playback signals from REC head and PLAY head. DVCPRO playback uses PLAY head. DV playback uses REC head. Both signals come from the EQ circuit. The playback signal from the PLAY head goes to CANNEL SELECT in IC33902 via PB DCI(IC33601). The playback signal from the REC head also goes to CANNEL SELECT in IC33902 via REC DCI(IC33501). The function of CHANNEL SELECT is to increase data amount using REC HEAD playback signal during high speed playback mode. The signal enters to PB ECC(IC33401). PB ECC(IC33401) does Error correction, shuffling, and the sub code signal extraction by using MEMORY IC (IC33402). The signal is separated into two ways. One is for video, the other is for audio. Video signal is connected with the PB BD bus.

An audio signal is extracted in PB AUDIO(IC33301) and goes to connector P35702(19B). via buffer (IC33308), then to the AUDIO PROCESS circuit in Analog1 board.

VITC and a closed caption signal are extracted in VIDEO AUX I/F(IC34001) and are encoded by VITC CC ENC (IC34001).

A video signal is expanded in PB COMPRESSION(IC33302) and is de-shuffled by PB SHUF

MEMORY(IC33204) and PB SHUFFLE(IC33203). Output from PB SHUFFLE is separated into Y and C signals. Y signal is sent to the TBC circuit with the VITC and the closed caption signal. C signal is also sent to the TBC circuit. In case of PAL PRE SHUFFLE(IC35201) is done before TBC circuit. TBC circuit is composed of TBC/FILTER(IC33704) and FRAME MEMORY(IC33801~33804). A blanking part is inserted by BLANKING INSERT(IC33805,33806). Both signals, PB Y and PB C go to REC/PB1 BLOCK.

<REC/PB1 BLOCK> PB Y and PB C enter to IC34601 to convert data from Y/C to Y/Pb/Pr. Finally component signal is converted to analog in IC34502 and supplied to Analog1 Board.

■ SYNC GEN (Digital 1)

This circuit is composed of SYNC GEN IC(IC34701), interface with REF IN and four PLLs. Those generates 13.5MHz clock, H Sync. and sub carrier.

Reference signal comes from connector P35704 to SYNC BURST SEP(IC34801) where composite sync. and burst(sub carrier) are extracted from the reference. Sub carrier is output at pin #3 and supplied to SYNC GEN IC(IC34701). Composite sync. enters to SYNC GEN IC at pin #98(RSY). Burst flag is generated at BF PULSE GEN(IC34804) and supplied to SYNC GEN IC.

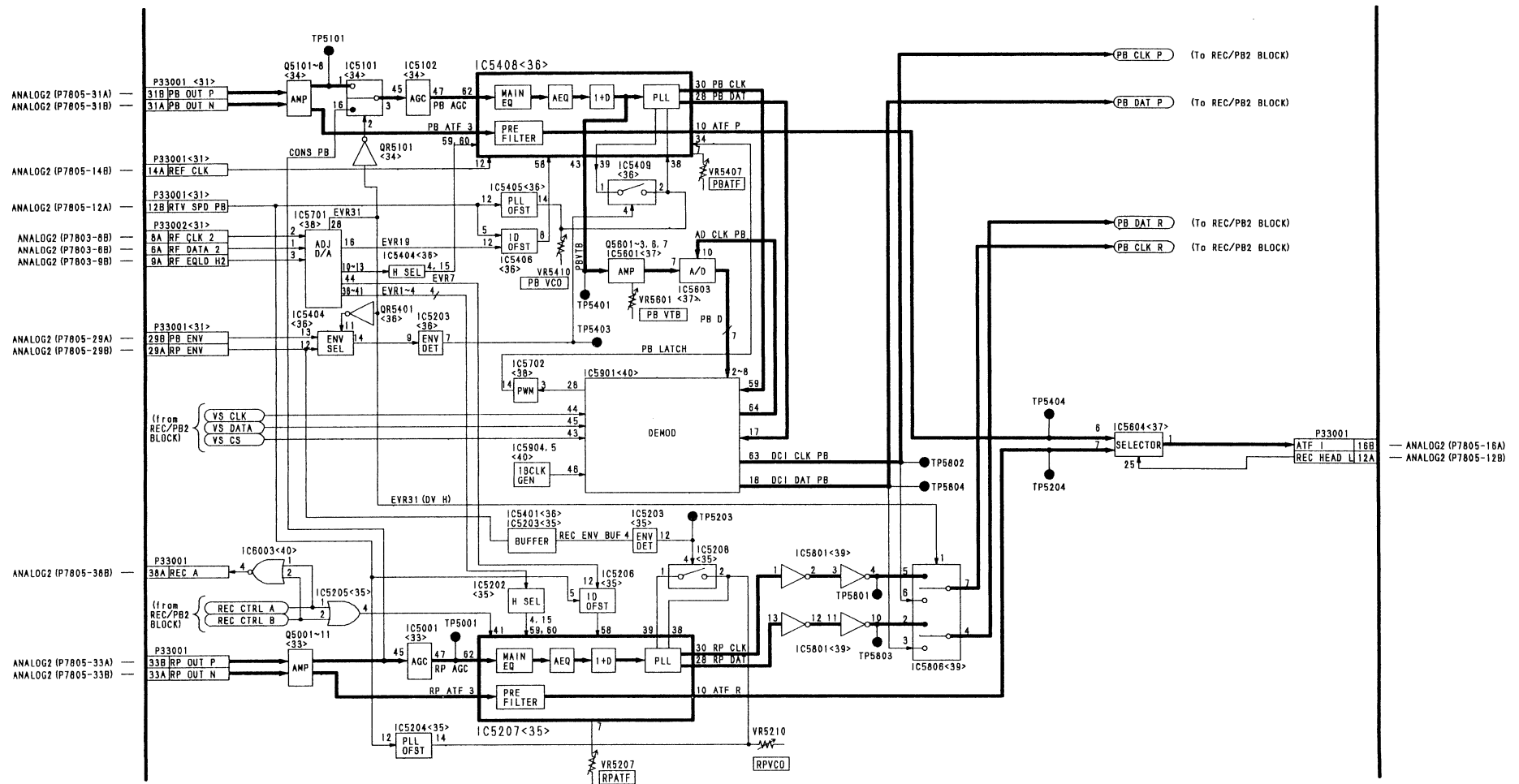
REF 4FSC PLL generates 4fsc(FS) locked with burst signal of REF VIDEO IN when REF VIDEO is input. The FS is divided to be HD at H SYNC GEN inside SYNC GEN IC. On the other hand HR is made of RSY at H PULSE GEN inside SYNC GEN IC. HO is selected between HR and HD. HR is influenced by SYSTEM H at SYNC DELAY IC(IC34703). SYS SC is adjusted in SYNC GEN IC coarsely by SCC1 and SCC2, and finely adjusted at PULSE DL(IC34904, 34805).

CLK1 PLL generates 13.5MHz component clock. H LOCK PLL contributes to VIDEO PHASE adjustment.

ENC RSC PLL generates sub carrier for encoder. It is output from pin #53(RSC). R SYNC L from pin #117(CS1) is composite sync for encoder as well.

EQ (DIGITAL 2) BLOCK DIAGRAM

5-16



■EQ (Digital 2)

[General]

The EQ circuit compensates a frequency and a phase in the playback signal from the head to decode in the best condition. There are a circuit for REC HEAD and a circuit for PB HEAD. The circuit for PB HEAD has the circuit of the viterbi decoder. REC HEAD is used on DV playback mode, however, PB HEAD circuit is used.

- One chip Equalizer PLL IC with delay circuit inside.

◆PB HEAD circuit

Playback signal is input to connector P33001(31A,B). Amplified signal goes two ways.

One is for ATF going to PRE FILTER(IC5408), and then to Servo board. PRE FILTER(IC5408) is composed of an amplifier and Band Pass Filter which passes 470KHz and 680KHz. ATF gain is adjusted by LISTA Sensitivity Adjustment.

The other, main signal flow, is input a switch(IC5101) where playback mode is selected, DV or DVCPRO. When DV playback mode signal comes from REC head.

MAIN EQ(IC5408) adjusts gain, phase and group delay by EVR. AUTO EQ described as AEQ(IC5408) automatically improves error rate on interchange playback.

1+D circuit(IC5408) processes interleaved NRZI modulation. When recording, $1/(1-D^2)$ is processed. This is why playback circuit must do the opposite process. Recording and playback on magnetic tape has differential characteristic of 1-D. Consequently playback circuit has only to process 1+D.

$$1/(1-D^2) \times (1-D) \times (1+D) = 1$$

Clock is extracted in PLL(IC5408) and separated into PB DAT and PB CLK. IC5409 controls the PLL loop ON/OFF, normally ON. When envelope level becomes one-third times of correct level, a signal from ENV DET(IC5203) cuts loop and holds PLL. This prevents PLL from making malfunction because of low envelope level.

PB VTB, separated after 1+D, goes to DEMOD(IC5901) through AMP and A/D converter. PB DAT and PB CLK are also input to DEMOD which demodulates Viterbi. Output signals, DCI CLK PB and DCI DAT PB, are supplied to REC/PB circuit.

◆REC HEAD circuit

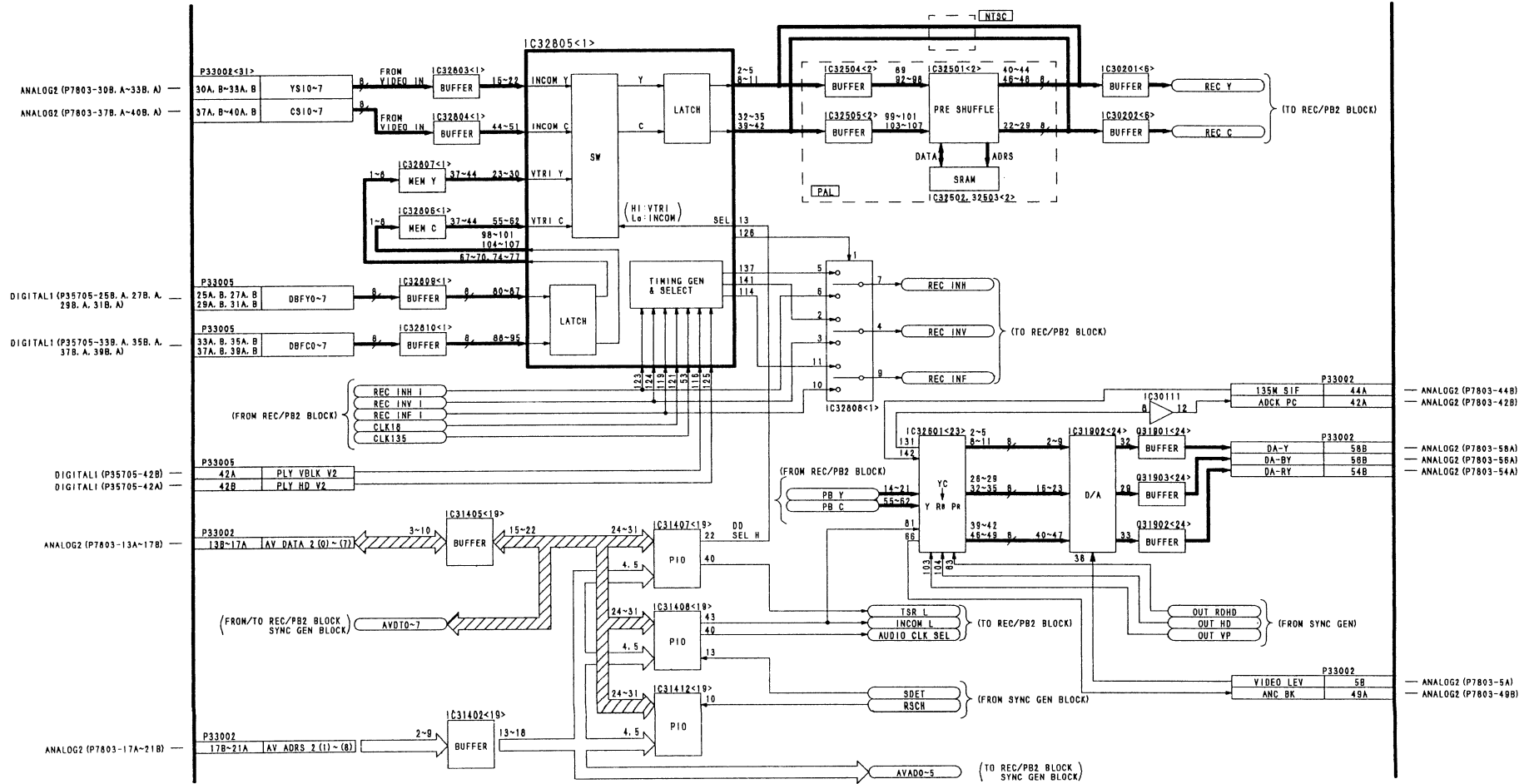
Playback signal is input to connector P33001(33A,B). Signal process is approximately same as PB HEAD circuit. The difference is that there isn't Viterbi demodulation.

During DV playback mode the signal is picked up from REC HEAD and supplied to IC5101. The signal goes to IC5806 through PB HEAD EQ circuit. Output is supplied to REC/PB circuit as PB DAT R and PB CLK R.

Main purpose of this circuit is to increase data amount using REC HEAD playback signal during high speed playback mode.

REC/PB1 (DIGITAL 2) BLOCK DIAGRAM

5-18



■ REC/PB Block (Digital 2)

This circuit makes record and playback processes such as shuffling, DVCPRO compression, expansion, error correction, and the sub code signal processing.

◆ Recording

<REC/PB1 BLOCK> Y and C signals which come from VIDEO IN connector via the Analog2 board are input to connector P33002 (from 30A to 33B and 37A to 40B). Those signals are called INCOME Y and INCOME C which enter to SW inside IC32805.

Other Y and C signals played back in VTR1 are input from Digital1 board to connector P33005. Those signals are called VTR1 Y and VTR1 C which also enter to SW inside IC32805. This IC switches signal for recording depending on setting of operation mode SW. If INT is selected, VTR1 Y and C are recorded. Otherwise INCOME Y and C are recorded. Selected signals go to REC/PB2 BLOCK. via buffer (IC32021,30202). In case of PAL pre shuffling(IC32501) is done before signal goes there.

<REC/PB2 BLOCK> Shuffling for the compression is done in REC SHUFFLE (IC32024) and REC SHUFFLE MEMORY (IC33205). REC COMPRESSION (IC30304) compresses a signal. Then it connects with the DVC bus called REC BD. It is composed with data bus and 3 control signals which are REC BQUIET, REC BDCK and REC BDEN.

An audio signal (from IC30303) and VIDEO AUX signal (from IC31301) are added to this bus. It is output to REC ECC(IC30401). EE signal is delayed by IC31803 and input to BUS SEL(IC30003).

REC ECC(IC30401) does addition of error correction code, de-shuffling and addition of a sub code signal (from IC31601) using MEMORY(IC30402).

The signal is sent to REC DCI(IC30501). At the REC DCI the recorded signal is converted to 41.85 MHz serial signal which is adequate for recording. REC CTRL A(B) switches recording current of ch A(B) ON/OFF. The record signal goes from connector P33001 (from 44A and 44B) to the RF AMP board via the mother board after the change to ECL signal with TTL to ECL conversion (IC30505).

An audio signal is input from the AUDIO PROCESS circuit in Analog2 board to connector P33002 (28 A). Then an audio signal is output to the bus called REC BD through buffer (IC30305,30306) from REC AUDIO(IC30303) through buffer (IC30301).

VIDEO AUX signal is input to IC31301. It extracts and decodes VITC and a closed caption signal here. It connects with the REC BD bus as the VIDEO AUX signal.

◆ Playback

<REC/PB2 BLOCK> There are 2 kinds of playback signals from REC head and PLAY head. DVCPRO playback uses PLAY head. DV playback uses REC head. Both signals come from the EQ circuit. The playback signal from the PLAY head goes to CANNEL SELECT in IC31201 via PB DCI(IC30601). The playback signal from the REC head also goes to CANNEL SELECT in IC31201 via REC DCI(IC30501). The function of CHANNEL SELECT is to increase data amount using REC HEAD playback signal during high speed playback mode. The signal enters to PB ECC(IC30701). PB ECC(IC30701) does Error correction, shuffling, and the sub code signal extraction by using MEMORY IC (IC30702). The signal goes to BUS SEL(IC30003) which switches E-E or V-V, and is separated into two ways. One is for video, the other is for

audio.

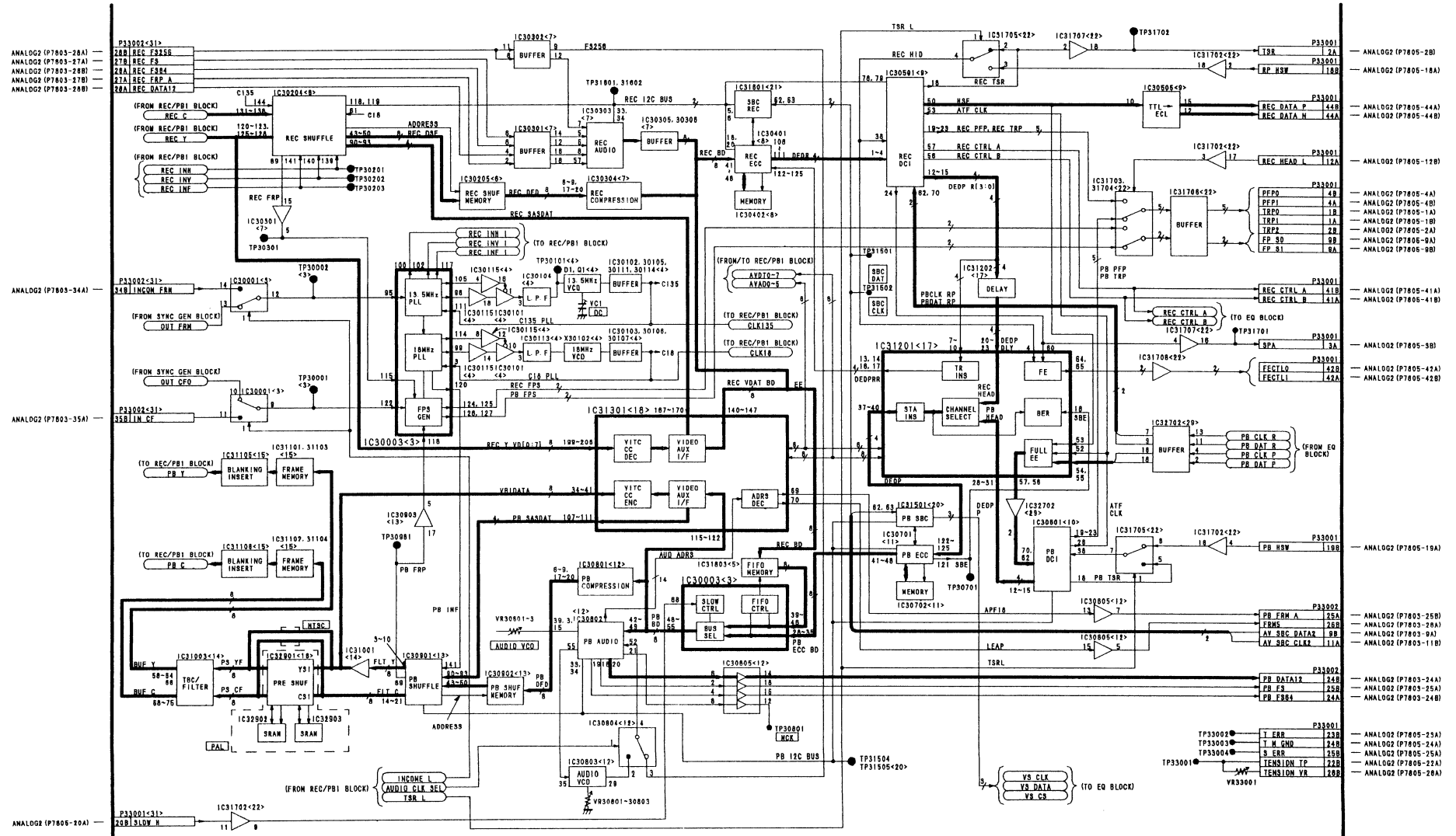
An audio signal is extracted in PB AUDIO(IC30802) and goes to connector P33002(24B) via buffer (IC30805), then to the AUDIO PROCESS circuit in Analog2 board.

VITC and a closed caption signal are extracted in VIDEO AUX I/F(IC31301) and are encoded by VITC CC ENC (IC31301).

A video signal is expanded in PB COMPRESSION(IC30801) and is de-shuffled by PB SHUF MEMORY(IC30902) and PB SHUFFLE(IC30901). Output from PB SHUFFLE is separated into Y and C signals. Y signal is sent to the TBC circuit with the VITC and the closed caption signal. C signal is also sent to the TBC circuit. In case of PAL PRE SHUFFLE(IC32901) is done before TBC circuit. TBC circuit is composed of TBC/FILTER(IC31003) and FRAME MEMORY(IC31101 ~ 31104). A blanking part is inserted by BLANKING INSERT(IC31105,31106). Both signals, PB Y and PB C go to REC/PB1 BLOCK.

<REC/PB1 BLOCK> PB Y and PB C enter to IC32601 to convert data from Y/C to Y/Pb/Pr. Finally component signal is converted to analog in IC31902 and supplied to Analog2 Board.

REC/PB2 (DIGITAL 2) BLOCK DIAGRAM



■ REC/PB Block (Digital 2)

This circuit makes record and playback processes such as shuffling, DVCPRO compression, expansion, error correction, and the sub code signal processing.

◆ Recording

<REC/PB1 BLOCK> Y and C signals which come from VIDEO IN connector via the Analog2 board are input to connector P33002 (from 30A to 33B and 37A to 40B). Those signals are called INCOME Y and INCOME C which enter to SW inside IC32805.

Other Y and C signals played back in VTR1 are input from Digital1 board to connector P33005. Those signals are called VTR1 Y and VTR1 C which also enter to SW inside IC32805. This IC switches signal for recording depending on setting of operation mode SW. If INT is selected, VTR1 Y and C are recorded. Otherwise INCOME Y and C are recorded. Selected signals go to REC/PB2 BLOCK. via buffer (IC30201,30202). In case of PAL pre shuffling(IC32501) is done before signal goes there.

<REC/PB2 BLOCK> Shuffling for the compression is done in REC SHUFFLE (IC30204) and REC SHUFFLE MEMORY (IC33205). REC COMPRESSION (IC30304) compresses a signal. Then it connects with the DVC bus called REC BD. It is composed with data bus and 3 control signals which are REC BQUIET, REC BDCK and REC BDEN.

An audio signal (from IC30303) and VIDEO AUX signal (from IC31301) are added to this bus. It is output to REC ECC(IC30401). EE signal is delayed by IC31803 and input to BUS SEL(IC30003).

REC ECC(IC30401) does addition of error correction code, de-shuffling and addition of a sub code signal (from IC31601) using MEMORY(IC30402).

The signal is sent to REC DCI(IC30501). At the REC DCI the recorded signal is converted to 41.85 MHz serial signal which is adequate for recording. REC CTRL A(B) switches recording current of ch A(B) ON/OFF. The record signal goes from connector P33001 (from 44A and 44B) to the RF AMP board via the mother board after the change to ECL signal with TTL to ECL conversion (IC30505).

An audio signal is input from the AUDIO PROCESS circuit in Analog2 board to connector P33002 (28 A). Then an audio signal is output to the bus called REC BD through buffer (IC30305,30306) from REC AUDIO(IC30303) through buffer (IC30301).

VIDEO AUX signal is input to IC31301. It extracts and decodes VITC and a closed caption signal here. It connects with the REC BD bus as the VIDEO AUX signal.

◆ Playback

<REC/PB2 BLOCK> There are 2 kinds of playback signals from REC head and PLAY head. DVCPRO playback uses PLAY head. DV playback uses REC head. Both signals come from the EQ circuit. The playback signal from the PLAY head goes to CANNEL SELECT in IC31201 via PB DCI(IC30601). The playback signal from the REC head also goes to CANNEL SELECT in IC31201 via REC DCI(IC30501). The function of CHANNEL SELECT is to increase data amount using REC HEAD playback signal during high speed playback mode. The signal enters to PB ECC(IC30701). PB ECC(IC30701) does Error correction, shuffling, and the sub code signal extraction by using MEMORY IC (IC30702). The signal goes to BUS SEL(IC30003) which switches E-E or V-V, and is separated into two ways. One is for video, the other is for

audio.

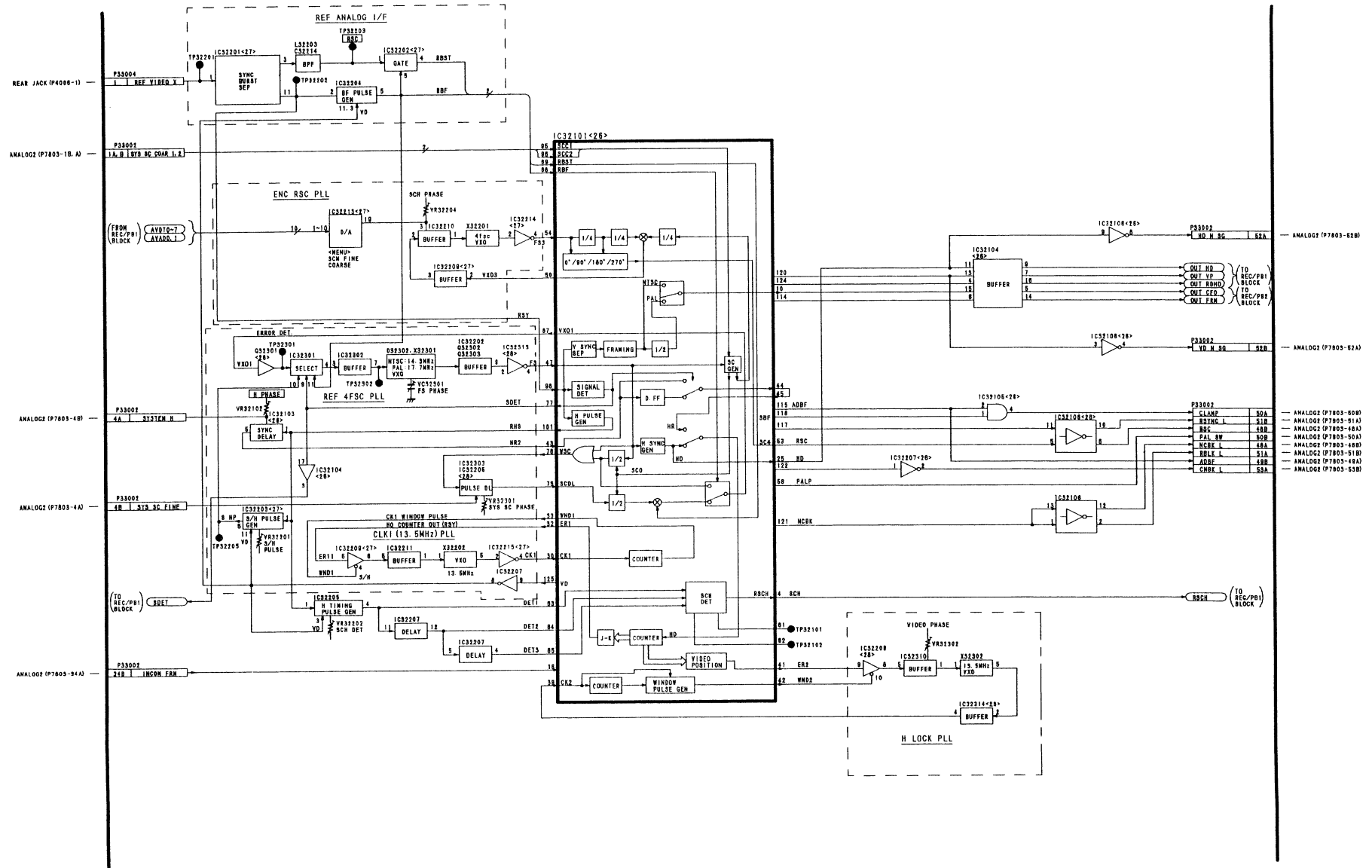
An audio signal is extracted in PB AUDIO(IC30802) and goes to connector P33002(24B) via buffer (IC30805), then to the AUDIO PROCESS circuit in Analog2 board.

VITC and a closed caption signal are extracted in VIDEO AUX I/F(IC31301) and are encoded by VITC CC ENC (IC31301).

A video signal is expanded in PB COMPRESSION(IC30801) and is de-shuffled by PB SHUF MEMORY(IC30902) and PB SHUFFLE(IC30901). Output from PB SHUFFLE is separated into Y and C signals. Y signal is sent to the TBC circuit with the VITC and the closed caption signal. C signal is also sent to the TBC circuit. In case of PAL PRE SHUFFLE(IC32901) is done before TBC circuit. TBC circuit is composed of TBC/FILTER(IC31003) and FRAME MEMORY(IC31101~31104). A blanking part is inserted by BLANKING INSERT(IC31105,31106). Both signals, PB Y and PB C go to REC/PB1 BLOCK.

<REC/PB1 BLOCK> PB Y and PB C enter to IC32601 to convert data from Y/C to Y/Pb/Pr. Finally component signal is converted to analog in IC31902 and supplied to Analog2 Board.

5—22



■ SYNC GEN (Digital 2)

This circuit is composed of SYNC GEN IC(IC32101), interface with REF IN and four PLLs. Those generates 13.5MHz clock, H Sync. and sub carrier.

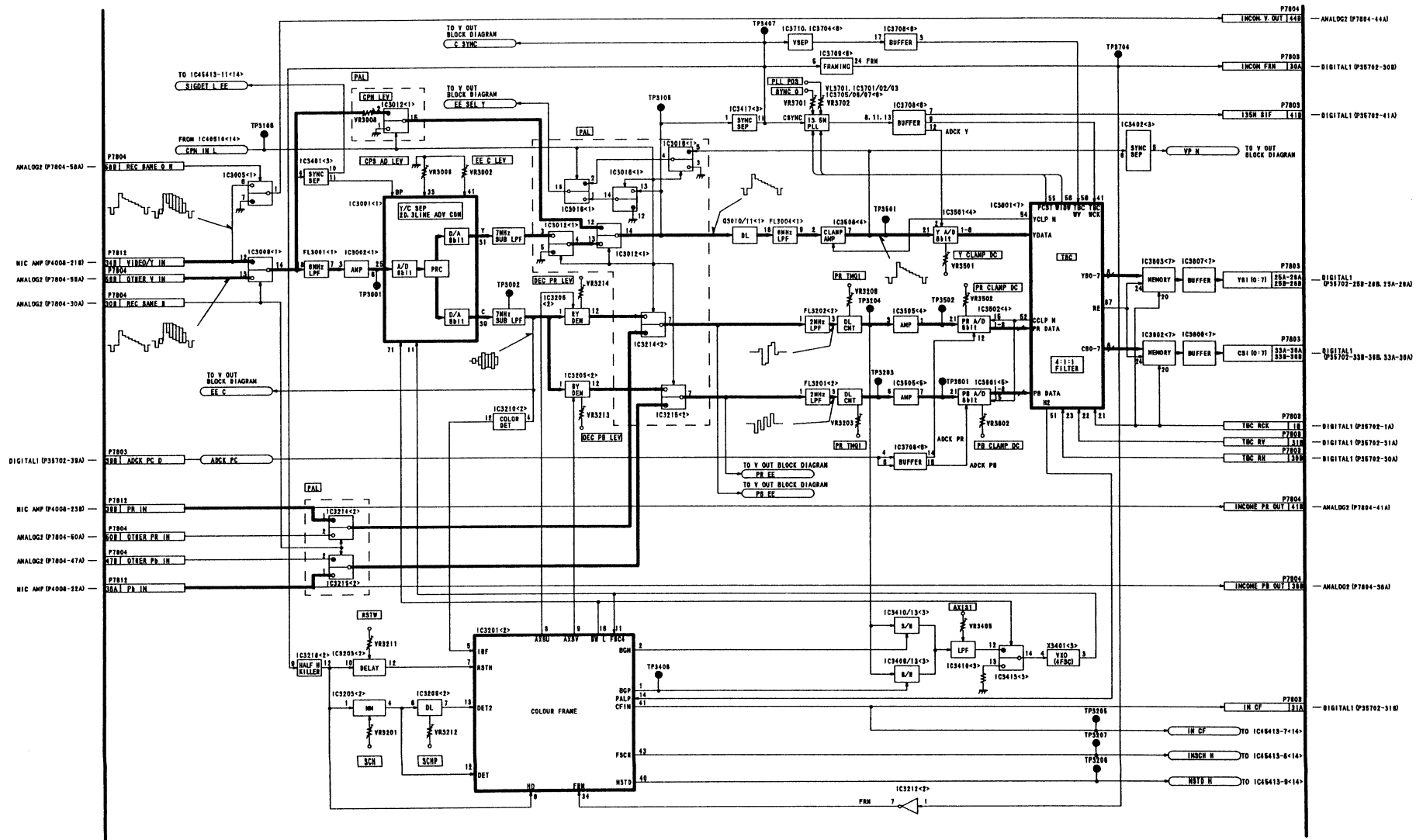
Reference signal comes from connector P33004 to SYNC BURST SEP(IC32201) where composite sync. and burst(sub carrier) are extracted from the reference. Sub carrier is output at pin #3 and supplied to SYNC GEN IC(IC32101). Composite sync. enters to SYNC GEN IC at pin #98(RSY). Burst flag is generated at BF PULSE GEN(IC32204) and supplied to SYNC GEN IC.

REF 4FSC PLL generates 4fsc(FS) locked with burst signal of REF VIDEO IN when REF VIDEO is input. The FS is divided to be HD at H SYNC GEN inside SYNC GEN IC. On the other hand HR is made of RSY at H PULSE GEN inside SYNC GEN IC. HO is selected between HR and HD. HR is influenced by SYSTEM H at SYNC DELAY IC(IC32103). SYS SC is adjusted in SYNC GEN IC coarsely by SCC1 and SCC2, and finely adjusted at PULSE DL(IC32303, 32205).

CLK1 PLL generates 13.5MHz component clock. H LOCK PLL contributes to VIDEO PHASE adjustment.

ENC RSC PLL generates sub carrier for encoder. It is output from pin #53(RSC). R SYNC L from pin #117(CS1) is composite sync for encoder as well.

VIDEO IN (ANALOG 1) BLOCK DIAGRAM



■ VIDEO IN (Analog 1)

[OUTLINE, THE CHARACTERISTIC]

It switches two kinds of input signals, an analog component and an analog composite, which are changes to 8 bit digital signals. These component digital signals are point order converted and sent through a 4:1:1 filter. Whereupon these are output to the REC PB circuit on the digital board.

The VTR1 or the VTR2 input signal can be selected by the menu and recorded for the VTR1 input signal.

- VTR1 and VTR2 Input Switching
- Digital Y/C separation and C Demodulation
- Input TBC (C Point Order, 4:1:1 Filter, Recording Timing GEN)

[SIGNAL FLOW]

The VTR1 Analog Composite and Component Y input signals is input from Connector P7804 (34B), and then passes through the buffer, after which it is input to the switch (IC3009) It switches select the VTR1 input signals VTR1 or VTR2. The VTR2 input signal is input from the VTR2 VIDEO IN circuit (ANALOG 2 board), through P7804 (56B) (OTHER V IN).

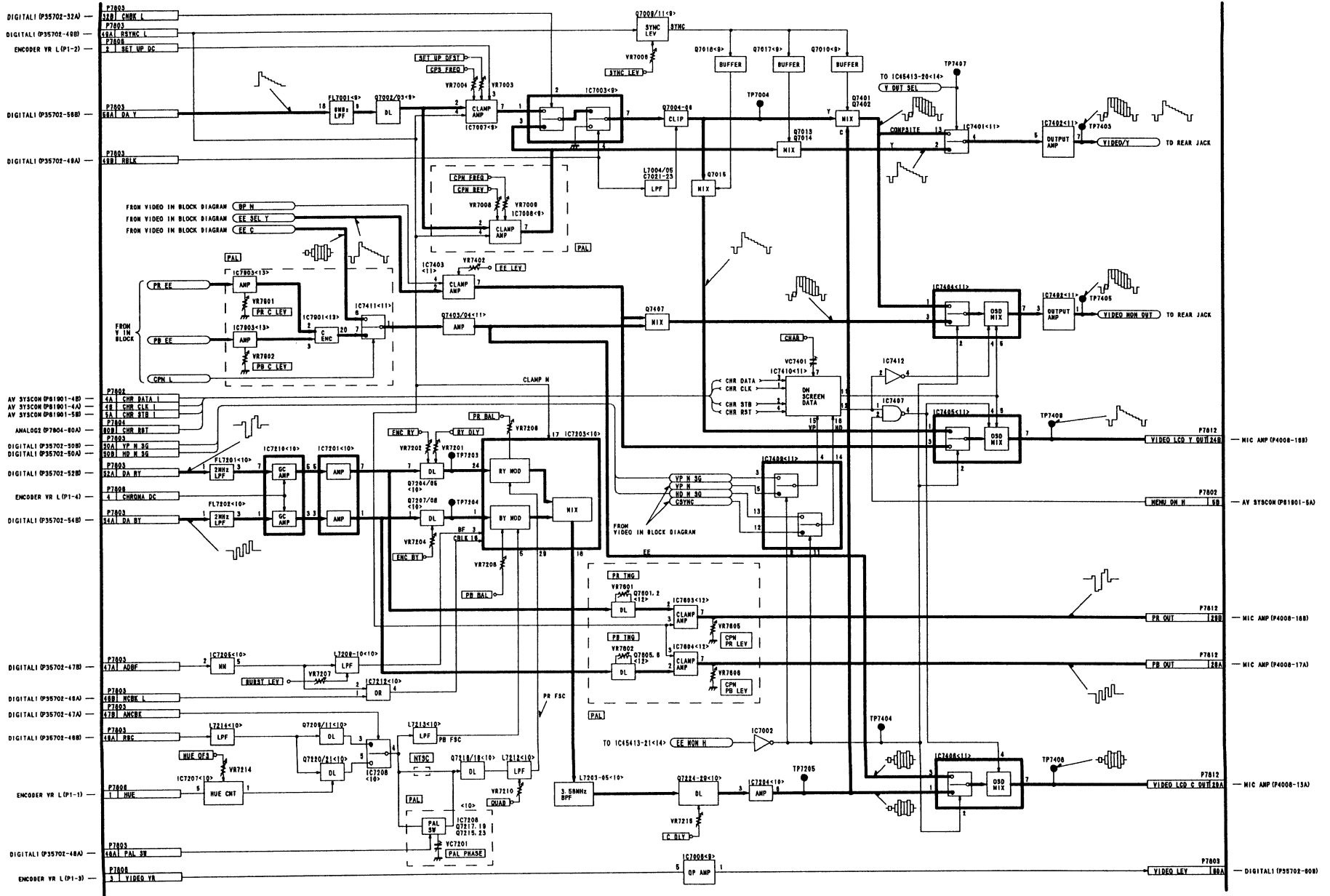
The Component Pr input signal from connector P7812 (39B) and Component Pb input signal from connector P7812(38A), which are input to the VTR1/VTR2 select switch (IC3214 and 15). The VTR2 input signal is input from VTR2 VIDEO IN circuit (ANALOG 2 board), through P7804(56B) (OTHER Pr IN) , and P7804 (47B) (OTHER Pb IN).

After passing through the IC3009 the signal line is separated Composite and Component Y process, the Analog Composite Input Signal passes through the 6 MHz LPF (FL3001) and the Amp (IC3002) and is input to the Y/C separator IC (IC3001). This IC has an internal A/D, D/A feature, which separates the signal into Y and C (4.43 MHz) using a 2 dimensional 3 line Digital Com Filter. The sampling frequency is 17.7MHz, and this signal is created in the X3401. The Y/C separated Y signal is sent through the 7 MHz Sub LPF to remove A/D and D/A sampling noise. After through pass the 7MHz sub LPF, the Y signal is send to IC3012. The IC3012 is selected Composite or Component by V IN SEL on the Set Up menu. And so Component Y signal is input to IC3012 without through pass the YC SEP (IC3001). Next the output signal from IC3012 , which is sent through a delay line in order to match the Y/C timing, and is then input to the Y Signal Band Control 6MHz LPF (FL3004). After the CLAMP AMP of IC3508, the signal is converted to an 8 bit digital signal by the IC3501 A/D Converter.

As with the Y Signal, the C Signal is sent through the 7 MHz sub-LPF and is decoded into PB and PR Signals by the Decoder (IC3206, 3205). Whereupon Pr and Pb signals are send to switch IC (Pr) (IC3214) , (Pb) (IC3215) for select Composite or Component input signal. After output from IC3214 and IC3215 the band width is controlled in the 2 MHz LPF, and the timing is adjusted (VR3208, 3203). After this the signal is converted into an 8 bit digital signal by the IC3502, 3601 A/D converter (at a sampling frequency of 13.5 MHz. This signal is created by the 13.5 MHz PLL Circuit in the IC3705, 06 and 07). The Y, Pr and Pb digital signals are input to the Input TBC IC (IC3801).

The Input TBC has the functions of converting non-standard signals into standard signals, point order conversion and 4:1:1 LPF. The major components of the Input TBC consist of the IC3801 and the memory ICs 3802 and 3803. First the Y Signal is sent to the FIFO (MEMORY) (IC3803) through the DELAY Circuit. Whereupon, after point order conversion, the C Signal is sent to the FIFO (MEMORY) (IC3802), and the signals from the FIFO pass through the buffers and are sent to the REC PB circuit on the DIGITAL Board 1 from Connector P7803 (28A from 25A and 28B from 25B).

VIDEO OUT (ANALOG 1) BLOCK DIAGRAM



■ VIDEO_OUT (Analog 1)

[OUTLINE, THE CHARACTERISTIC]

This board encodes the D/A converted Component Video signal from the Digital 1 board for the VIDEO OUT, MONITOR OUT, and also outputs the Y/C signal for the internal LCD. On-screen characters are added to the Y signal for the MONITOR OUT and the LCD. And also output the Component signal.

- LCD Y/C Signal Output
- Conversion to Analog Composite Signal (Encoder)
- Analog Composite Signal Output (VIDEO OUT)
- Analog Composite Signal Output (VIDEO MONITOR OUT)
- Character Generating Circuit
- Analog Component Signal Output

[SIGNAL FLOW]

The analog Y signal which is D/A converted in the REC PB circuit (DIGITAL 1 board) first passes through the 6 MHz LPF to remove the D/A carrier. Next this signal passes through the DL circuit (Q7002/03) for phase compensation with the Chroma signal. After phase compensation, the signals are divided into two lines, which are respectively sent to the two CLAMP AMP circuits (IC7007 / IC7008) and then clamped by the "RSYNC L" signal. The SET UP DC voltage is then sent to IC7007 from the SETUP VR on the ENCODER VR L Board. This voltage adjusts the SETUP level. IC7008 outputs SETUP at 0 V (zero volts). These two signals are then input to the SW circuit (IC7003), and a no-setup signal (IC7008 output signal) is output for the V blanking period (through 20 H). From 21 H the SETUP level adjusted Y signal is output (IC7007 output signal). This then passes through the blanking circuit (IC7003) and is input to the clip circuit. Whereupon the Y signal is clipped by the 125 IRE.

The clipped Y signal is then divided into two lines, and is used for the component signal and the LCD-Y. The Y signal for the composite signal is first mixed for the C signal from the chromatic circuit, and is converted into the composite SYNC signal. This signal passes through the OUTPUT AMP (IC7402) and is output as the replay (VV) from the VIDEO OUT terminal and the VIDEO MON OUT terminal for the back screen panel. Only PAL models are used for the IC 7401 (component / composite switch), through which the signal passes through before the OUTPUT AMP on the VIDEO OUT side. There is an EE/VV switch and an OSD MIX Circuit (IC7494) before the OUTPUT AMP of the VIDEO MON OUT. After the EE SEL Y signal and the EE C signal are mixed and input to the switching circuit and then EE/VV switched (switched by the EE MON H signal), the ON-Screen Data (OSD) is mixed and output.

The IC7411 is inputted EE C (Composite) signal and encoded (Component) signal for Pr EE and Pb EE, which are encoded by IC7901. The IC7411 is selected Composite or Component by V OUT SEL on the Set Up menu.

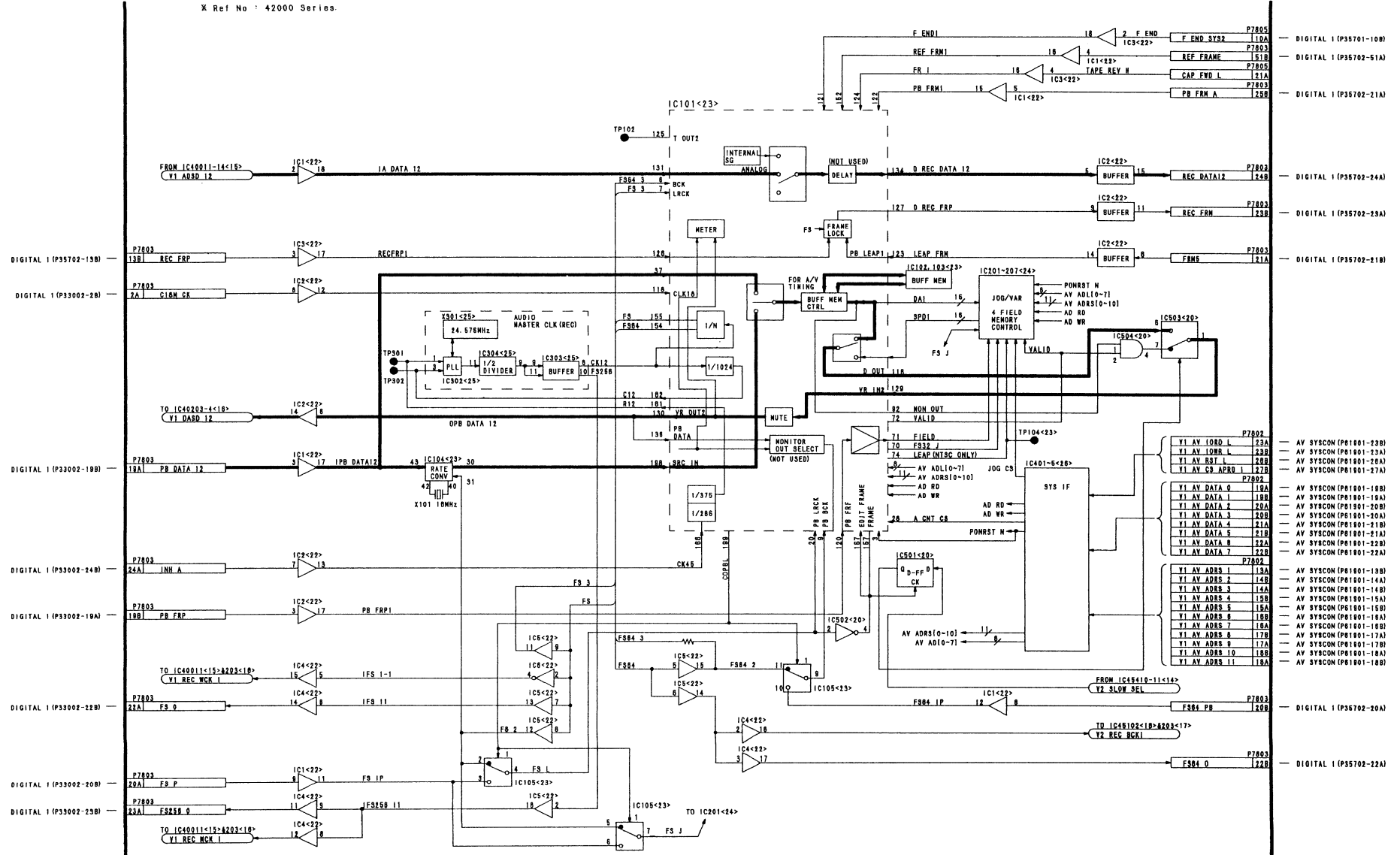
For the LCD-Y the composite SYNC signal is mixed and then sent to the switching circuit (IC7405) for play output. The EE signal then passes through the clamp circuit (IC7403) from the VIDEO IN circuit (E-E SEL Y Signal), and is then input to the switching circuit (IC7405). Here the switching to EE or VV is performed by the "MON EE L" signal, and the result is subsequently sent through the OSD MIX Circuit, and is output to the LCD.

For the Chroma signal, the PR and PB signals are input from P7803-52A and 54A, and then passed through the 2MHz LPF (FL7201/7202) to remove the D/A carrier. Next the gain is adjusted by the "CHROMA DC" (IC7210), and after through pass the AMP (IC7201), the signal line separated two process for Composite and Component. With Composite process, the signal sent to the delay circuit (PR / Q7204 - 05, PB/Q7207, 08). Whereupon the PR and PB are respectively adjusted for gain (VR7202 and 04) as well as the PR-PB timing (VR7201). Next the PR and PB are each adjusted in IC7203, and converted to the Chroma signal by the MIX circuit. The Burst signal is created from the ADBF signal (P7803 / 47A). The sub-carrier for adjustment is compiled from the RSC signal (P7803 / 46A) in the delay circuit (DL) and the LPF. The Chroma signal created by the IC7203 passes through the 3.58 MHZ BPF, and the YC timing is adjusted in the delay circuit. This is then sent to the aforementioned VIDEO OUT and VIDEO MON OUT circuits. With Component process, after through pass the AMP (IC7201), the Pr and Pb signals are sent to Delay and Clamp Amp circuit. Whereupon Pr and Pb signals output to PR and PB OUT terminal from connector P7812 (29B) and P7812 (28A).

For the On Screen Character Signal, the "CHR DATA" and the "CHR CLK" signals sent from the AV SYSCON are converted to character signals by the ON SCREEN DATA circuit in IC7410, and are mixed with the VIDEO signal in the OSD MIX circuit.

AUDIO PROCESS (ANALOG 1) BLOCK DIAGRAM

X Ref No : 42000 Series.



■ A PROC (Analog 1)

[Outline, the characteristic]

- The 4 field memory for the playback at the time of JOG
- The rate converter (32KHz 4ch → 48KHz 2ch : For the consumer compatibility playback)

[Flow of the signal]

◆ REC PROCESS

An analog audio signal is inputted to A PROC circuit as V1 ADSD signal after A/D converted on the ADDA circuit. And the audio signal is send to IC101 via IC1 for delay 1/4 frame (to synchronized video signal, it is delay 1/4 frame in TBC). After output from IC101, the audio signal send to Digital 1 P.C.Board from connector P7803 (24B) as REC DATA signal via BUFFER (IC2).

◆ PB PROCESS

An audio playback signal from REC PB circuit on Digital 1 P.C.Board inputted to connector P7803 (19A). After through IC1, the signal separated 2 process. One is goes to IC101 directly, the other one is goes to RATE CONV (IC104). RATE CONV is the circuit which changes into the clock frequency of DVCPRO in case of playback of the tape which was recorded by the consumer format (the clock frequency is different)(32KHz being 48KHz in 4ch converting into 2ch). Also through RATE CONV IC signal is goes to IC101, and the signal is selected by switch the signal is delayed 3/4 frame by BUFF MEM CNTL for synchronized to video signal (it is delayed 3/4 frame in TBC). And signal is send to switch for select the JOG (SPD1) data, it data is supplied from 4 FIELD MEMORY CONTROL (IC201 to 207). Next the signal is send to switch (IC503) from IC101 for select the Intermittent audio slow signal, which is made by IC504. IC504 is only output the audio signal, when VALID signal is became high. In case of select the Intermittent audio mode on Audio set up menu (No. 709), the IC503 is output intermittent audio signal, it timing is controlled V1 SLOW SEL signal, which is supplied from AUDIO PIO IC. Before inputted to IC503, V1 SLOW SEL signal is latched by FS (48KHz CLK) on IC501 (D-FF). After outputted from IC503, the AUDIO DATA signal is send to ADDA circuit as V1 DASD 12 signal through pass the IC101.

◆ CLK

Audio MASTER CLK for REC process, which circuit composed 24MHz OSC ($\times 301$), PLL (IC302), 1/2 DIVIDER (IC304) and BUFFER (IC303) for generate 12.288MHz CLK.

The 12.288MHz CLK output from IC303 as two process, one is send to REC and PB AUDIO IC on Digital 1 P.C.Board from connector P7803 (23A) Via BUFFER (IC4 and 5). Also this clock is send to AD and DA converted IC on ADDA circuit as MCK. The other one process, 12.288MHz CLK (CK12) is send to IC101 for dividing, and after dividing the clock is send to PLL (IC302) for comparing clock, also this clock is output from IC101 as FS and FS64. FS and FS64 clock is send to REC AUDIO IC on Digital 1 P.C.Board from connector P7803 (22A, B), also these clock are send to AD and DA converter IC on ADDD Circuit.

INH A (Income locked H Ref.) signal is inputted to connector P7803 (24A) from Digital 1 P.C.Board, and it is send to IC101 as CK45 (4.5MHz : Ref FH) for dividing. After dividing, the clock is send to PLL (IC302) as reference clock.

FS and FS64 for playback clock are inputted to IC101 from PB AUDIO IC on Digital 1 P.C.Board. FS and FS64 are inputted from connector P7803 (20A, B), it is send to switch (IC105).

Also IC105 is supplied REC standard FS and FS64, IC105 is selected clock by COPBL signal and output to IC101.

Also selected FS is send to D-FF (IC501) and 4 Field Memory circuit.

■ ADDA (Analog 1)

[Outline, the characteristic]

ADDA (Analog 1) interfaces with analog audio input of CH1 and CH2 and also outputs A/D converted digital signal to AUDIO PROCESS circuit. This ADDA adds D/A conversion to digital signals coming from AUDIO PROCESS circuit and interfaces with analog audio output of CH1, CH2 and monitor OUT (L/R CH) as well.

[INPUT Part]

- Impedance Selection: 600ohm/HIGH (10KHz)
- Balance Input
- Level Selection: -20/0/+4dBu.
- A/D Converter (16bit, 48KHz)

[OUTPUT Part]

- Level Selection: -20/0/+4dBu.
- Low Impedance Balance Output
- D/A Converter

[SIGNAL FLOW]

◆CH1 INPUT part

Balanced analog audio signal coming from the jack panel passes through MIC AMP, mother board, then enters into Connector P7812 (43B, 45B, 47B). After that the signal goes to INP SEL (SW1) where selection of 600ohm/HIGH (10KHz) impedance switching can be made by using the switch (provided within the board). The selection is factory-configured to HIGH.

In the next step the signal is input into IC1. Firstly it enters to the input level selection block where the three types of input level setting can be set on a -20/0/+4dBu basis. The selection is factory-configured to 0dB. Secondly the signal enters to the BAL/UNBAL AMP block whereupon the signal is converted into unbalance signal. Then the unbalance signal is sent from pin 58 and enters into the switch (IC9/pin 1).

Audio IN input at VTR2's side is input to pin 2, and the audio input is selected according to the menu (No. 105) setting and then delivered from pin 15. It further proceeds to REC LEVEL CONT (IC16) where the REC level is adjusted by using VR on the key panel. Passing through the AMP (IC18), it is input into IC1/pin 51 and EMP AMP control is added to it at this stage.

Emphasis ON/OFF selection is set with the menu (No. 704). (The selection is set to ON on delivery). The signal is outputted from pin 41 and 43 flows to A/D Converter (IC10), and the resolution is 16bit and the sampling frequency is 48KHz respectively.

A/D converter output makes CH1,2 the same output line, and it is then forwarded to A PROC circuit via BUFFER (IC102).

◆CH2 INPUT part

In the same manner as CH1, balanced analog audio signal coming from the jack panel passes through MIC AMP mother board, then enters into Connector P7812 (42A, 44A, 46A). The signal flow of CH2 INPUT part up to IC10 (A/D converter) follows the same process as seen in CH1 INPUT part, and refer to the explanation stated above for details.

◆CH1 OUTPUT part

CH1, 2 audio signals from A PROC circuit (Signal Designation: V1 DASD 12) are forwarded to D/A converter (IC202) by way of BUFFER (IC203). The digital signals there are converted into CH1, CH2 analog audio signals, and they are outputted to two different systems. CH1 signal is sent from pin 18 to DE EMP AMP (Q201, QR202, 203) via BUFFER (IC204), then it is separated and distributed to PB OUT process and MONITOR OUT process respectively after passing through OUTPUT LEVEL ADJ (IC204).

Output from PB OUT process enters into AUDIO SWAP circuit in the next step, and output from IC204/pin 7 is sent out to IC320 (MIX), IC318 (AUDIO SWAP: CH1), IC319 (AUDIO SWAP: CH2) via BUFFER (IC321). CH2 signal is supplied to IC320, 321 (MIX) from IC323 (BUFFER)/pin 1 is then relayed to IC318 and 319 after being mixed with CH1. CH2 signal is also supplied to IC318 from IC323/pin 7 for signal swapping. In accordance with the setting made by AUDIO SWAP SW on the key panel, IC318 outputs CH1 signal and IC319 outputs CH2 signal when NORM

is selected, and IC318 outputs CH2 signal and IC319 outputs CH1 signal when SWAP is selected, and IC318 as well as IC319 outputs MIX signal when MIX is selected.

IC318 outputs two signals, and one enters into analog 2 P.C.Board for internal editing operation and the other enters into the switch (IC302/pin 3). CUE audio is produced in case that search mode is selected as the CUE audio signal is input in pin 5, but it is not produced during SHTL if the menu (No. 710: SHTL AUDIO) is set to OFF.

The output coming from IC302/pin 4 is divided into two; one is forwarded to pin 2 and the other is forwarded to LEVEL SEL (IC303, 5) respectively. The audio signal is supplied to pin 1 from REC process circuit will cause audio EE signal output from pin 15 during EE or when EXT CHECK button on the key panel is pressed. The signal is output from Connector P7808, and it is then send out from Connector P7803 as CH1 METER signal by passing through BUFFER (IC305). The signal sent to LEVEL SEL IC changes output level settings on a -20/0/+4dBu basis at this point. The selection is factory-configured to 0dBu. It finally reaches Canon connector on the jack panel after passing through OUTPUT AMP (IC304), MUT (C306,7), Connector P7812 (49B, 51B 53B) and mother, MIC AMP P.C.Board. MUT mutes noise coming from on/off operation.

◆CH2 OUTPUT part

As with CH1, CH2 signal is output from D/A converter (IC202/pin 17). The signal flow of CH2 OUTPUT part till when the signal is delivered from Connector P7812 follows the same process as seen in CH1OUTPUT part, and refer to the explanation stated above for details.

◆V1 MONI OUTPUT part

As stated previously in CH1 OUTPUT part's paragraph, the output produced from MONI OUT process enters to the switch (IC317/pin 3) from OUTPUT LEVEL ADJ (IC204). And the output produced from MONI OUT process enters to the switch (IC320/pin 3) from OUTPUT LEVEL ADJ (IC205) on CH2's side. CUE audio signal is produced according to the menu (No. 709: AUDIO SLOW) setting in case that search mode is selected as the CUE audio signal is also input into IC317, 320. The outputs from both IC317, 320 are connected to pin 2 from pin 4 and selection between the output signal and EE signal is then performed. During EE or when EXT CHECK button on the key panel is pressed, the signal coming from the circuit at input's side is delivered. It is then input to the switch (IC906) after passing through BUFFER (IC907), where signals are produced respectively from CH1 and CH2, and they are outputted according to the AUDIO MONITOR SW setting (CH1/CH2/MIX) on the key panel. They pass through BUFFER (IC910), OUTPUT AMP (IC921), MUT (IC923, 924) and finally reaches Canon connector on the jack panel from Connector P7812 (55B, 57B, 59B) via mother, MIC AMP P.C.Board. MUT does noise mutes at the time of power supply on/off..

◆V2 MONI OUTPUT part

Monitoring signal; either the signal from D/A converter or CUE audio or EE audio, is input from Connector P7804 (16B, 18B) in accordance with the selection made at analog 2 P.C.Board, and it passes through BUFFER (IC909). The signal flow till when it is finally output from Connector P7812 (56A, 58A, 60A) follows the same pattern as seen in VTR1's side, and refer to the explanation stated above.

◆SPEAKER/HEADPHONE OUTPUT part

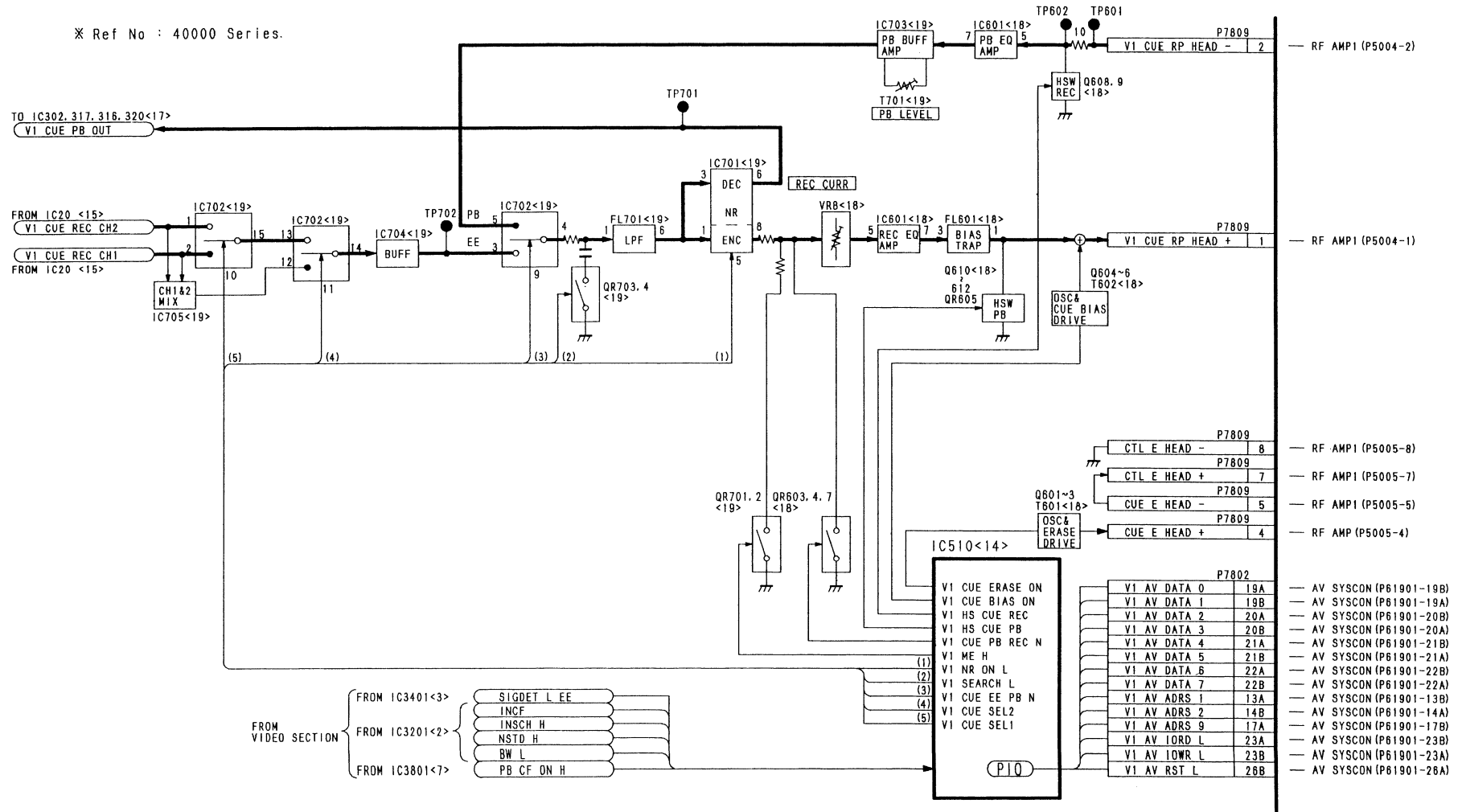
V1 CH1, V1 CH2, V1 MIX, V2 CH1, V2 CH2, V2 MIX signals, to be used as speaker/headphone output signals, are sent out from MONI output line on V1, V2's side. They are sent to the output selection circuit comprising of IC916 to IC919. AUDIO MON SW and SPEAKER/HEADPHONE SW on the key panel make a selection of signals to be output to SP CH1 OUT, SP CH2 OUT signal lines, and they are sent out to analog 2 P.C.Board from Connector P7804 (3B, 5B).

◆Others

PIO (IC507, 509, 510) decodes parallel signals from data bus in AV DATA and distributes them to the respective circuits as control signals.

CUE (ANALOG 1) BLOCK DIAGRAM

※ Ref No : 40000 Series.



■ CUE (Analog 1 & 2)

[Outline, the characteristic]

CUE is a circuit that records and reproduces analog audio signal input of CH1 and CH2 on the linear (CUE) track.

[SIGNAL FLOW]

◆ REC process

Analog audio CH1, CH2 signals from ADDA circuit are input to pin 1 and 2 of the switch (IC702), and CH1 and CH2 signals mixed by IC705 is input to pin 12. This switch is designed to shift signals to be recorded on CUE track, and CH1, CH2, MIX and a certain signal are output from Pin 14 in accordance with the set up menu No. 705 (REC CUE). The signal is then sent to LPF (FL701) from the switch (enters from pin 3 of IC702 and comes out from pin 4) provided to set EE/PB switching. In the following step the signal is output from pin 8 after encoded dolby B with NR ENC (IC701).

QR701, 2 adjust setting to get a recording level of 6dB lower than MP during ME tape recording on the one hand, QR603, 4, 7 lowers signal level during reproduction operation on the other hand, and VR8 controls level of recording current in addition. Next it passes through REC EQ (IC601) and is sent out to RF AMP P.C. Board upon mixing bias signal by way of BIAS TRAP (FL601). During recording operation the level at TP602's side is lowered to GND through the medium of HEAD SW REC (Q608, 9) circuit.

◆ PB process

Reproduced signal from CUE head, after passing through RF AMP P.C. Board, goes to Connector P7809 (2), then further enters into PB EQ AMP (IC601), and the signal line from record process is lowered to GND by way of HEAD SW PB (Q810-812, QR805) circuit. Output of PB EQ AMP flows into PB BUFF AMP (IC703), then it is sent to the switch (enters from IC702/pin 5 and comes out from pin 4).

QR703, 4 lowers treble of the signal during search operation on the one hand, LPF (FL701) performs BIAS TRAP operation on the other hand, and the signal is forwarded to ADDA circuit after decoded dolby B with IC701 (NR DEC).

◆ CUE & CTL ERASE

CUE ERASE ON signal is supplied to OSC & ERASE DRIVE (Q601-3, T601) circuit to oscillate 70 KHz ERASE BIAS signal. The CUE ERASE ON signal is then sent to CUE ERASE head via RF AMP P.C. Board, and the bias signal is also forwarded to CTL ERASE head via analog, RF AMP P.C. Board.

◆ Others

PIO (IC510: analog 1) (IC413: analog 2) decodes parallel signal from data bus of AV DATA and distributes them to each circuit as control signals.

5—34

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■ VIDEO IN (Analog 2)

[OUTLINE, THE CHARACTERISTIC]

It switches two kinds of input signals, an analog component and an analog composite, which are changes to 8 bit digital signals. These component digital signals are point order converted and sent through a 4:1:1 filter. These are output to the REC PB circuit on the digital board.

- 8bit A/D
- Digital Y/C separation and C Demodulation
- Input TBC (C Point Order, 4:1:1 Filter, Recording Timing GEN)

[SIGNAL FLOW]

The VTR2 Analog Composite and Component Y input signal is input from Connector P7801 (23B), and then passes through the buffer, after which it is input to the switch (IC3009). This switch does not use in the VTR 2.

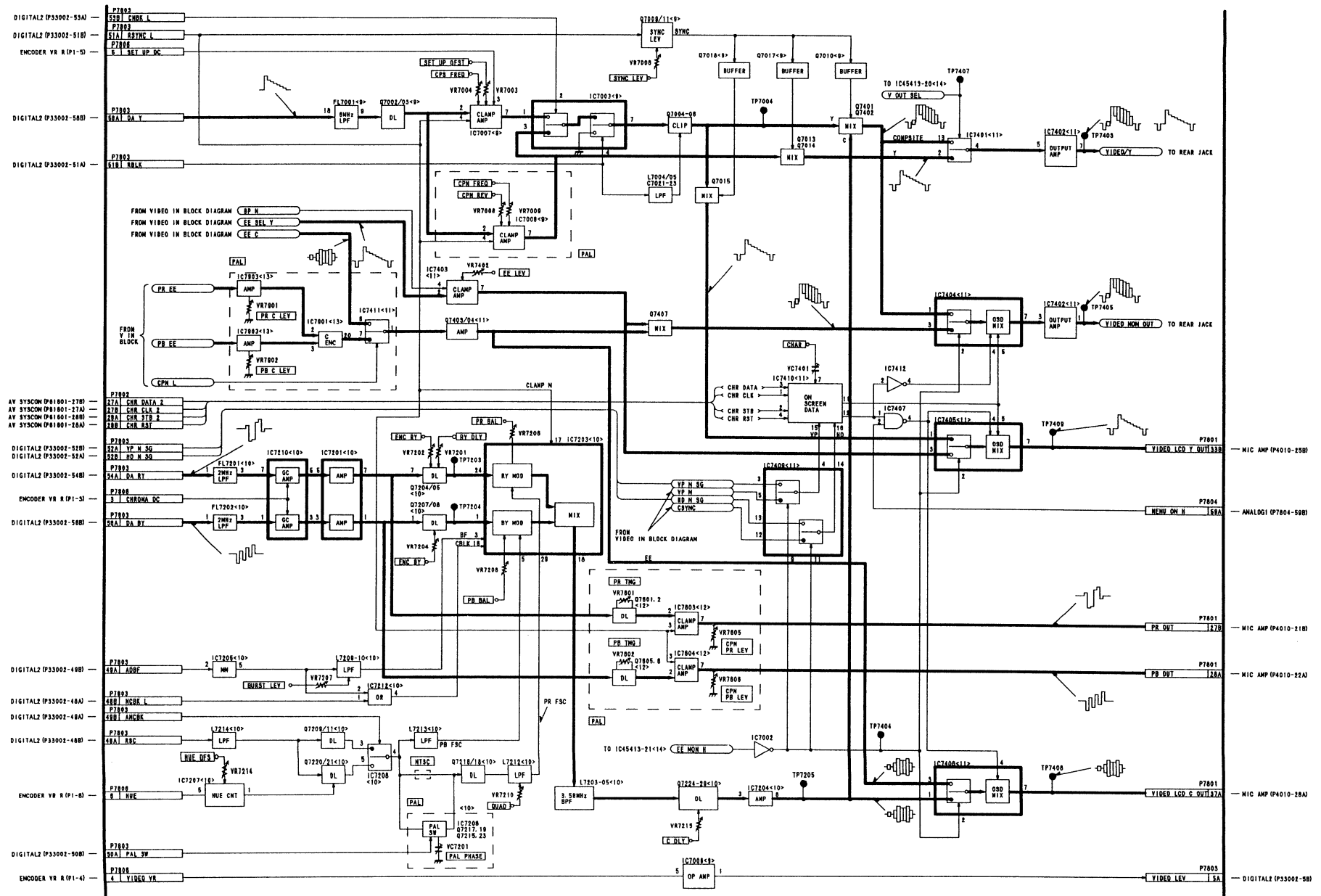
The Component Pr input signal input from connector P7812(39B) and Component Pb input signal input from connector P7812(38A), and so those signals send to IC3214 and 3215.

After passing through the switching circuit, the Analog Composite Input Signal passes through the 6 MHz LPF (FL3001) and the Amp (IC3002) and is input to the Y/C separator IC (IC3001). This IC has an internal A/D, D/A feature, which separates the signal into Y and C (4.43 MHz) using a 2 dimensional 3 line Digital Com Filter. The sampling frequency is 17.7 MHz, and this signal is created in the X3401. The Y/C separated Y signal is sent through the 7 MHz Sub LPF to remove A/D and D/A sampling noise. After through pass the 7MHz sub LPF, the Y signal is send to IC3012. The IC3012 is selected Composite or Component by V IN SEL on the Set Up menu Next the output signal from IC3012, which is sent through a delay line in order to match the Y/C timing, and is then input to the Y Signal Band Control 6MHz LPF (FL3004). After the CLAMP AMP of IC3508, the signal is converted to an 8 bit digital signal by the IC3501 A/D Converter.

As with the Y Signal, the C Signal is sent through the 7 MHz sub-LPF and is decoded into PB and PR Signals by the Decoder (IC3206, 3205). Whereupon Pr and Pb signals are send to switch IC (Pr) (IC3214), (Pb) (IC3215) for select Component or Composite input signal. After output from IC3214 and 3215 the band width is controlled in the 2 MHz LPF, and the timing is adjusted (VR3208, 3203). After this the signal is converted into an 8 bit digital signal by the IC3502, 3601 A/D converter (at a sampling frequency of 13.5 MHz. This signal is created by the 13.5 MHz PLL Circuit in the IC3705, 06 and 07). The Y, Pr and Pb digital signals are input to the Input TBC IC (IC3801).

The Input TBC has the functions of converting non-standard signals into standard signals, point order conversion and 4:1:1 LPF. The major components of the Input TBC consist of the IC3801 and the memory ICs 3802 and 3803. First the Y Signal is sent to the FIFO (MEMORY) (IC3803) through the DELAY Circuit. Whereupon, after point order conversion, the C Signal is sent to the FIFO (MEMORY) (IC3802), and the signals from the FIFO pass through the buffers and are sent to the REC PB circuit on the DIGITAL Board 2 from Connector P7803 (30A from 28A and 30B from 33B).

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■ VIDEO_OUT (Analog 2)

[OUTLINE, THE CHARACTERISTIC]

This board encodes the D/A converted Component Video signal from the Digital 2 board for the VIDEO OUT, MONITOR OUT, and also outputs the Y/C signal for the internal LCD. On-screen characters are added to the Y signal for the MONITOR OUT and the LCD. And also output the Component signal.

- LCD Y/C Signal Output
- Conversion to Analog Composite Signal (Encoder)
- Analog Composite Signal Output (VIDEO OUT)
- Analog Composite Signal Output (VIDEO MONITOR OUT)
- Character Generating Circuit
- Analog Component Signal Output

[SIGNAL FLOW]

The analog Y signal which is D/A converted in the REC PB circuit (DIGITAL 2 board) first passes through the 6 MHz LPF to remove the D/A carrier. Next this signal passes through the DL circuit (Q7002/03) for phase compensation with the Chroma signal. After phase compensation, the signals are divided into two lines, which are respectively sent to the two CLAMP AMP circuits (IC7007 / IC7008) and then clamped by the "RSYNC L" signal. The SET UP DC voltage is then sent to IC7007 from the SETUP VR on the ENCODER VR L Board. This voltage adjusts the SETUP level. IC7008 outputs SETUP at 0 V (zero volts). These two signals are then input to the SW circuit (IC7003), and a no-setup signal (IC7008 output signal) is output for the V blanking period (through 20 H). From 21 H the SETUP level adjusted Y signal is output (IC7007 output signal). This then passes through the blanking circuit (IC7003) and is input to the clip circuit. Whereupon the Y signal is clipped by the 125 IRE.

The clipped Y signal is then divided into two lines, and is used for the component signal and the LCD-Y. The Y signal for the composite signal is first mixed for the C signal from the chromatic circuit, and is converted into the composite SYNC signal. This signal passes through the OUTPUT AMP (IC7402) and is output as the replay (VV) from the VIDEO OUT terminal and the VIDEO MON OUT terminal for the back screen panel. Only PAL models are used for the IC 7401 (component / composite switch), through which the signal passes through before the OUTPUT AMP on the VIDEO OUT side. There is an EE/VV switch and an OSD MIX Circuit (IC7494) before the OUTPUT AMP of the VIDEO MON OUT. After the EE SEL Y signal and the EE C signal are mixed and input to the switching circuit and then EE/VV switched (switched by the EE MON H signal), the ON-Screen Data (OSD) is mixed and output.

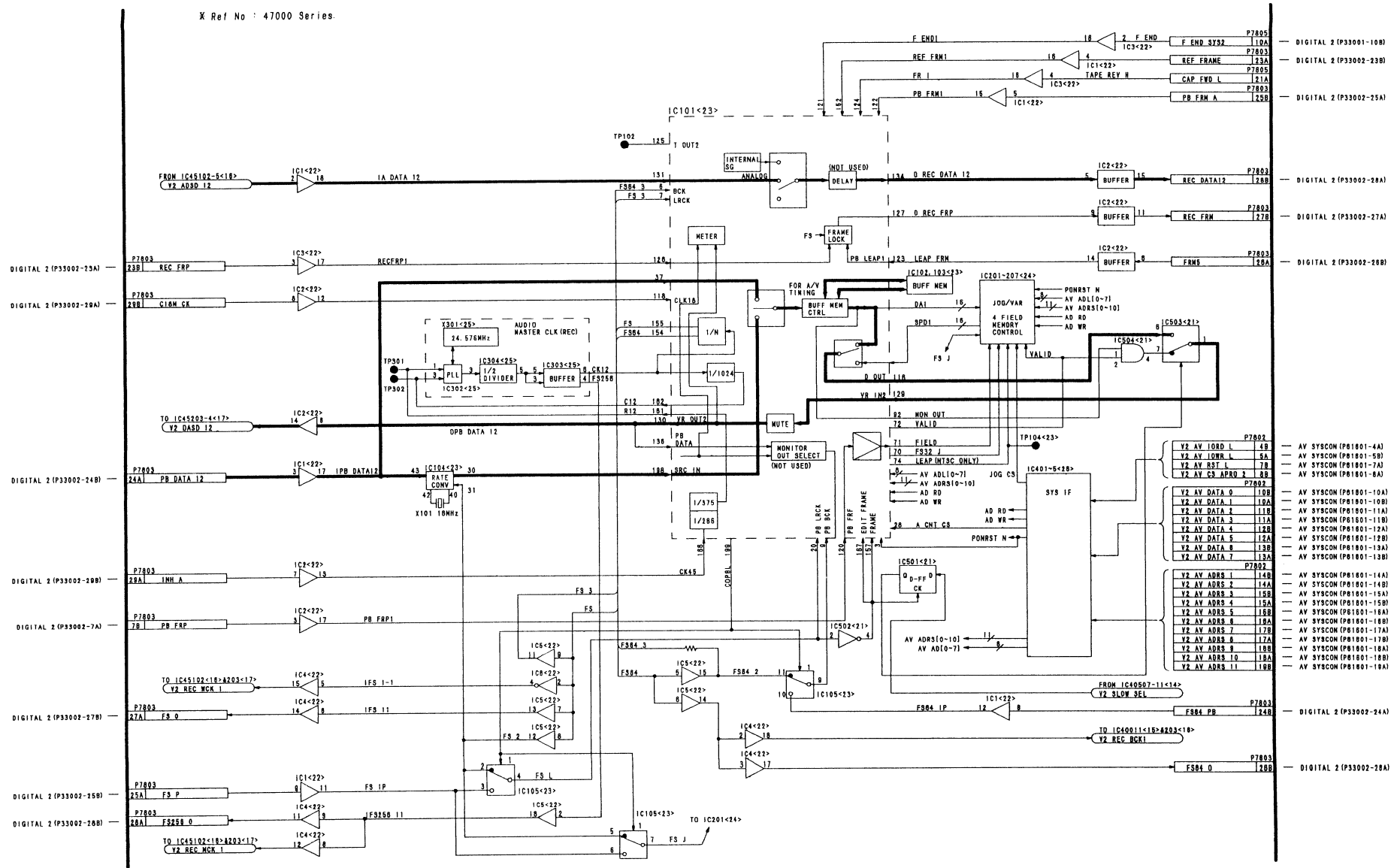
The IC7411 is inputted EE C (Composite) signal and encoded signal for Pr EE and Pb EE, which are encoded by IC7901. The IC7411 is selected Composite or Component by V OUT SEL on the Set Up menu.

For the LCD-Y the composite SYNC signal is mixed and then sent to the switching circuit (IC7405) for play output. The EE signal then passes through the clamp circuit (IC7403) from the VIDEO IN circuit (E-E SEL Y Signal), and is then input to the switching circuit (IC7405). Here the switching to EE or VV is performed by the "MON EE L" signal, and the result is subsequently sent through the OSD MIX Circuit, and is output to the LCD.

For the Chroma signal, the PR and PB signals are input from P7803-54A and 56A, and then passed through the 2MHz LPF (FL7201/7202) to remove the D/A carrier. Next the gain is adjusted by the "CHROMA DC" (IC7210), and then passes through the AMP (IC7201), the signal line separated two process for Composite and Component. With Composite process, this signal sent to the delay circuit (PR / Q7204 - 05, PB/Q7207, 08). Whereupon the PR and PB are respectively adjusted for gain (VR7202 and 04) as well as the PR-PB timing (VR7201). Next the PR and PB are each adjusted in IC7203, and converted to the Chroma signal by the MIX circuit. The Burst signal is created from the ADBF signal (P7803 / 49A). The sub-carrier for adjustment is compiled from the RSC signal (P7803 / 48A) in the delay circuit (DL) and the LPF. The Chroma signal created by the IC7203 passes through the 4.43 MHZ BPF, and the YC timing is adjusted in the delay circuit. This is then sent to the aforementioned VIDEO OUT and VIDEO MON OUT circuits. With Component process, after through pass the AMP(IC7201), the Pr and Pb signals are send to Delay and Clamp Amp circuit. Whereupon Pr and Pb signals output to PR and PB out terminal from connector P7812(29B) and P7812(28A).

For the On Screen Character Signal, the "CHR DATA" and the "CHR CLK" signals sent from the AV SYSCON are converted to character signals by the ON SCREEN DATA circuit in IC7410, and are mixed with the VIDEO signal in the OSD MIX circuit.

AUDIO PROCESS (ANALOG 2) BLOCK DIAGRAM



■A PROC (Analog 2)

[Outline, the characteristic]

- The 4 field memory for the playback at the time of JOG
- The rate converter (32KHz 4ch → 48KHz 2ch : For the consumer compatibility playback)

[Flow of the signal]

◆ REC PROCESS

An analog audio signal is inputted to A PROC circuit as V1 ADSD signal after A/D converted on the ADDA circuit. And the audio signal is send to IC101 via IC1 for delay 1/4 frame (to synchronized video signal, it is delay 1/4 frame in TBC). After output from IC101, the audio signal send to Digital 2 P.C.Board from connector P7803 (28B) as REC DATA signal via BUFFER (IC2).

◆ PB PROCESS

An audio playback signal from REC PB circuit on Digital 1 P.C.Board inputted to connector P7803 (19A). After through IC1, the signal separated 2 process. One is goes to IC101 directly, the other one is goes to RATE CONV (IC104). RATE CONV is the circuit which changes into the clock frequency of DVCPRO in case of playback of the tape which was recorded by the consumer format (the clock frequency is different)(32KHz being 48KHz in 4ch converting into 2ch). Also through RATE CONV IC signal is goes to IC101, and the signal is selected by switch the signal is delayed 3/4 frame by BUFF MEM CNTL for synchronized to video signal (it is delayed 3/4 frame in TBC). And signal is send to switch for select the JOG (SPD1) data, it data is supplied from 4 FIELD MEMORY CONTROL (IC201 to 207). Next the signal is send to switch (IC503) from IC101 for select the Intermittent audio slow signal, which is made by IC504. IC504 is only output the audio signal, when VALID signal is became high. In case of select the Intermittent audio mode on Audio set up menu (No. 709), the IC503 is output intermittent audio signal, it timing is controlled V2 SLOW SEL signal, which is supplied from AUDIO PIO IC. Before inputted to IC503, V2 SLOW SEL signal is latched by FS (48KHz CLK) on IC501 (D-FF). After outputted from IC503, the AUDIO DATA signal is send to ADDA circuit as V2 DASD 12 signal through pass the IC101.

◆ CLK

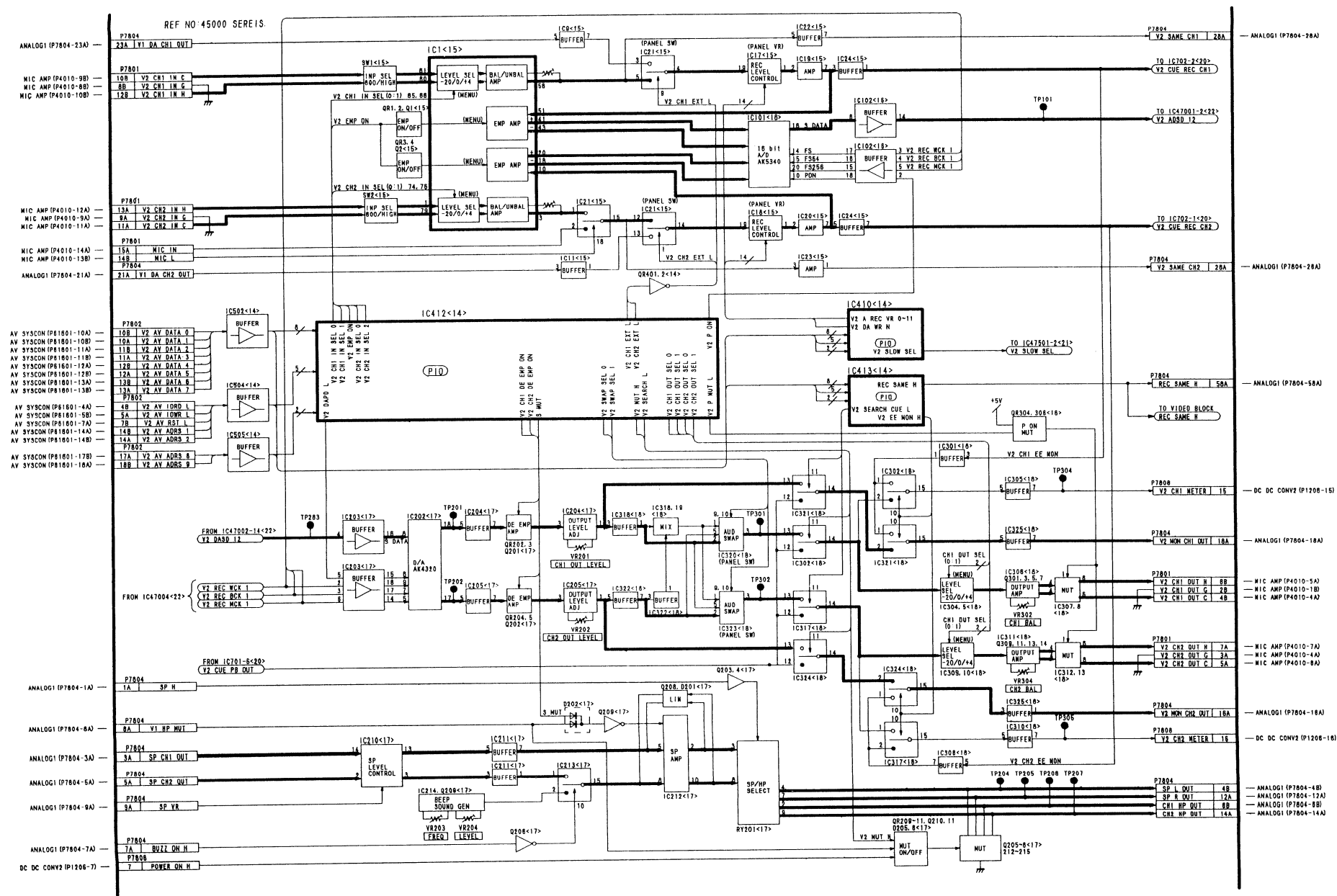
Audio MASTER CLK for REC process, which circuit composed 24MHz OSC (×301), PLL (IC302), 1/2 DIVIDER (IC304) and BUFFER (IC303) for generate 12.288MHz CLK.

The 12.288MHz CLK output from IC303 as two process, one is send to REC and PB AUDIO IC on Digital 2 P.C.Board from connector P7803 (28A) Via BUFFER (IC4 and 5). Also this clock is send to AD and DA converted IC on ADDA circuit as MCK. The other one process, 12.288MHz CLK (CK12) is send to IC101 for dividing, and after dividing the clock is send to PLL (IC302) for comparing clock, also this clock is output from IC101 as FS and FS64. FS and FS64 clock is send to REC AUDIO IC on Digital 1 P.C.Board from connector P7803 (27A, 26B), also these clock are send to AD and DA converter IC on ADDD Circuit.

For the Chroma signal, the PR and PB signals are input from P7803-54A and 56A, and then passed through the 2MHz LPF (FL7201/7202) to remove the D/A carrier. Next the gain is adjusted by the "CHROMA DC" (IC7210), and then passes through the AMP (IC7201). This is then sent to the delay circuit (PR / Q7204 - 05, PB/Q7207, 08). Whereupon the PR and PB are respectively adjusted for gain (VR7202 and 04) as well as the PR-PB timing (VR7201). Next the PR and PB are each adjusted in IC7203, and converted to the Chroma signal by the MIX circuit. The Burst signal is created from the ADBF signal (P7803 / 49A). The sub-carrier for adjustment is compiled from the RSC signal (P7803 / 48A) in the delay circuit (DL) and the LPF. The Chroma signal created by the IC7203 passes through the 3.58 MHZ BPF, and the YC timing is adjusted in the delay circuit. This is then sent to the aforementioned VIDEO OUT and VIDEO MON OUT circuits.

For the On Screen Character Signal, the "CHR DATA" and the "CHR CLK" signals sent from the AV SYSCON are converted to character signals by the ON SCREEN DATA circuit in IC7410, and are mixed with the VIDEO signal in the OSD MIX circuit.

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■ADDA (Analog 2)

[Outline, the characteristic]

The ADDA (Analog 2) interfaces with analog audio input of CH1 and CH2 and also outputs A/D converted digital signal to the AUDIO PROCESS circuit. This ADDA adds D/A conversion to the digital signals coming from AUDIO PROCESS circuit and interfaces with analog audio output of CH1, CH2 and monitor OUT (L/R CH) as well.

[INPUT part]

- Impedance Selection: 600ohm/HIGH (10KHz)
- Balance Input
- Level Selection: -20/0/+4dBu
- A/D Converter (16bit, 48KHz)

[OUTPUT part]

- Level Selection: -20/0/+4dBu
- Low Impedance Balance Output
- D/A Converter

[SIGNAL FLOW]

◆CH1 INPUT part

Balanced analog audio signal coming from the jack panel passes through MIC AMP, mother board, then enters into Connector P7801 (8B, 10B, 12B). After that the signal goes to at INP SEL (SW1) where selection of 600ohm/HIGH (10KHz) impedance switching can be made by using the switch (provided within the board). The selection is factory-configured to HIGH.

In the next step the signal is input into IC1. Firstly it enters to the input level selection block where the three types of input level can be selected on a -20/0/+4dBu basis from the menu (No. 700). The selection is factory-configured to 0dBu. Secondly the signal enters to the BAL/UNBAL AMP block whereupon the signal is converted into unbalance signal. Then the unbalance signal is output from pin 58 and further divided into two at this point. One passes through BUFFER (IC21) and is sent to analog 1 P.C.Board from Connector P7804 (28A) by way of BUFFER (IC21) as VTR2 audio input, while the other is input to the switch (IC21/pin 5). VTR1 audio output is input to pin 3 from where certain signal is outputted according to the setting made by VRT2 AUDIO INPUT SELECT SW on the key panel. It further proceeds to REC LEVEL CONT (IC17) where the REC level is adjusted by using VR on the key panel. Passing through the AMP (IC19), it is input into IC1/pin 51 and EMP AMP control is added to it at this stage.

Emphasis ON/OFF selection is set with the menu (No. 704). (The selection is set to ON upon deliver). The signal is outputted from pin 41 and 43 goes to A/D Converter (IC101), and the resolution is 16bit and the sampling frequency is 48KHz respectively.

A/D converter output makes CH1, 2 the same output line, and it is then output to A PROC circuit via BUFFER (IC102).

◆CH2 INPUT part

In the same manner as CH1, balanced analog audio signal coming from the jack panel passes through MIC AMP, mother board, then enters into Connector P7801 (9A, 11A, 13A). The signal flow of CH2 INPUT part up to IC101 (A/D converter) follows the same pattern as seen in CH1 INPUT part, and refer to the explanation stated above. The difference between CH1 INPUT part and CH2 INPUT part is that MIC can also be input to CH2 XLR connector. Further, the signal is divided into two signal lines on the MIC AMP P.C.Board; one is analog audio and the other is MIC input. MIC input is delivered out from pin 15 when MIC is selected with MIC/LINE selectable SW on the REAR PANEL.

◆CH1 OUTPUT part

CH1, 2 audio signals (Signal Designation: V2 DASD 12) from A PROC circuit are input to D/A converter (IC202) by way of BUFFER (IC203). The digital signals there are converted into CH1, CH2 analog audio signals, and they are outputted to two different process. CH1 signal is outputted from pin 18 reaches DE EMP AMP (Q201, QR202, 203) via BUFFER (IC204), then it is separated and distributed to LINE OUT process and MONITOR OUT process respectively after passing through OUTPUT LEVEL ADJ (IC204).

Output from LINE OUT process enters into AUDIO SWAP circuit in the next step, and output from IC204/pin 1 is sent out to IC320 (MIX), IC320 (AUDIO SWAP: CH1), IC323 (AUDIO SWAP: CH2) via BUFFER (IC318). CH2 signal intended for SWAP is sent to IC318, 319 (MIX) from IC322 (BUFFER)/pin 7. In accordance with the setting made by AUDIO SWAP SW on the key panel, IC320 outputs CH1 signal and IC323 outputs CH2 signal when NORM is selected, IC320 outputs CH2 signal and IC323 outputs CH1 signal when SWAP is selected, and IC320 as well as IC323 outputs MIX signal when MIX is selected.

The signal outputted from IC320 goes to the switch (IC302/pin 13). CUE audio is produced in case that search mode is selected as the CUE audio signal is input in pin 12, but it is not produced during SHTL when the menu (No. 710: SHTL AUDIO) is set to OFF.

The output coming from IC302/pin 14 is divided into two; one is sent to IC302/pin 2 and the other is sent to LEVEL SEL (IC304, 305) respectively. The signal is supplied to IC302/pin 1 from REC process circuit will cause audio EE signal output from pin 15 during EE or when EXT CHECK button on the key panel is pressed. The signal is output from Connector P7808 as CH1 METER signal via BUFFER (IC305) in the following step. The signal sent to LEVEL SEL IC changes output level setting on a -20/0/+4dBu basis at this point with the menu (No. 702). The selection is factory-configured to 0dB. It finally reaches Canon connector on the jack panel after passing through OUTPUT AMP (IC306), MUT (IC307, 308), Connector P7801 (2B, 4B, 6B) and mother board, MIC AMP P.C.Board. MUT does noise mute at the time of power supply on/off.

◆CH2 OUTPUT part

As with CH1, CH2 signal is output from D/A converter (IC202/pin 17). The signal flow of CH2 OUTPUT part till when the signal is delivered from Connector P7801 follows the same pattern as seen in CH1 OUTPUT part, and refer to the explanation stated above.

◆V1 and V2 MON OUTPUT part

As stated previously in CH1 OUTPUT part' paragraph, the output produced from MONI OUT process enters to the switch (IC321) from OUTPUT LEVEL ADJ (IC204). And the output produced from MONI OUT process enters to the switch (IC324) from OUTPUT LEVEL ADJ (IC205) at CH2's side. CUE audio signal is produced according to the menu (No. 709:AUDIO SLOW) setting in case that search mode is selected as the CUE audio signal is also input into IC321, 324. The outputs of IC321, 324 are delivered to pin 2 from pin 4 and selection between the output signal and EE signal is then performed. During EE or when EXT CHECK button on the key panel is pressed, signal is supplied from the circuit on the input's side and it passes through BUFFER (IC325), and MON CH1 signal is sent from connector P7804 (18A), and MON CH2 signal is sent from connector P7804 (16A) to analog 1 P.C.Board respectively.

◆SPEAKER/HEADPHONE OUTPUT part

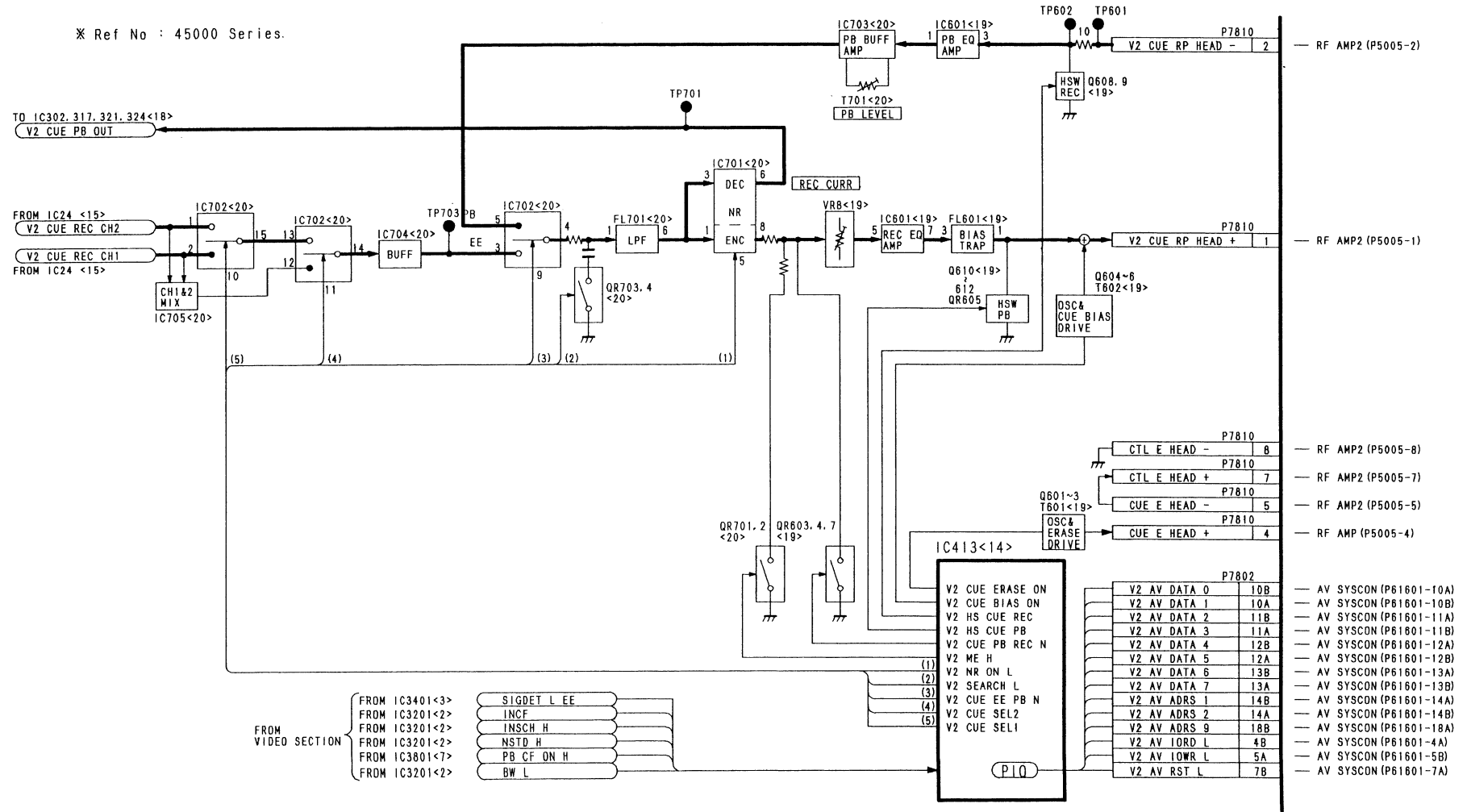
SP CH1 and SP CH2 signals are input to analog 1 P.C.Board from connector P7804 (3A, 5A) and sent out to SP LEVEL CONTROL (IC210). Whereupon GAIN CONTROL is performed to them by LEVEL VR on the LCD panel. They are further sent to SP AMP (IC212) via BUFFER (IC211), however the signal at CH2's side is sent to the switch (IC213) to perform switching of BEEP sound while editing IN/OUT adjustment is in progress. Also, limiter (Q208, D201) is provided in order that level becomes excessively large owing to the speaker's input characteristics. The output signal is delivered to SP/HP SELECT (RT201) from SP AMP, and the output of the headphone is delivered to the headphone jack in front from connector P7804 (14A, 6B) when the headphone jack is connected, and RY201 controls switching operation so that the sound is not produced from the speaker.

◆Others

PIO (IC410, 412, 413) decodes parallel signal from the data bus of AV DATA and distributes them to each circuit as control signals.

CUE (ANALOG 2) BLOCK DIAGRAM

※ Ref No : 45000 Series.



■ CUE (Analog 1 & 2)

[Outline, the characteristic]

CUE is a circuit that records and reproduces analog audio signal input of CH1 and CH2 on the linear (CUE) track.

[SIGNAL FLOW]

◆ REC process

Analog audio CH1, CH2 signals from ADDA circuit are input to pin 1 and 2 of the switch (IC702), and CH1 and CH2 signals mixed by IC705 is input to pin 12. This switch is designed to shift signals to be recorded on CUE track, and CH1, CH2, MIX and a certain signal are output from Pin 14 in accordance with the set up menu No. 705 (REC CUE). The signal is then sent to LPF (FL701) from the switch (enters from pin 3 of IC702 and comes out from pin 4) provided to set EE/PB switching. In the following step the signal is output from pin 8 after encoded dolby B with NR ENC (IC701).

QR701, 2 adjust setting to get a recording level of 6dB lower than MP during ME tape recording on the one hand, QR603, 4, 7 lowers signal level during reproduction operation on the other hand, and VR8 controls level of recording current in addition. Next it passes through REC EQ (IC601) and is sent out to RF AMP P.C.Board upon mixing bias signal by way of BIAS TRAP (FL601). During recording operation the level at TP602's side is lowered to GND through the medium of HEAD SW REC (Q608, 9) circuit.

◆ PB process

Reproduced signal from CUE head, after passing through RF AMP P.C.Board, goes to Connector P7809 (2), then further enters into PB EQ AMP (IC601), and the signal line from record process is lowered to GND by way of HEAD SW PB (Q810-812, QR805) circuit. Output of PB EQ AMP flows into PB BUFF AMP (IC703), then it is sent to the switch (enters from IC702/pin 5 and comes out from pin 4).

QR703, 4 lowers treble of the signal during search operation on the one hand, LPF (FL701) performs BIAS TRAP operation on the other hand, and the signal is forwarded to ADDA circuit after decoded dolby B with IC701 (NR DEC).

◆ CUE & CTL ERASE

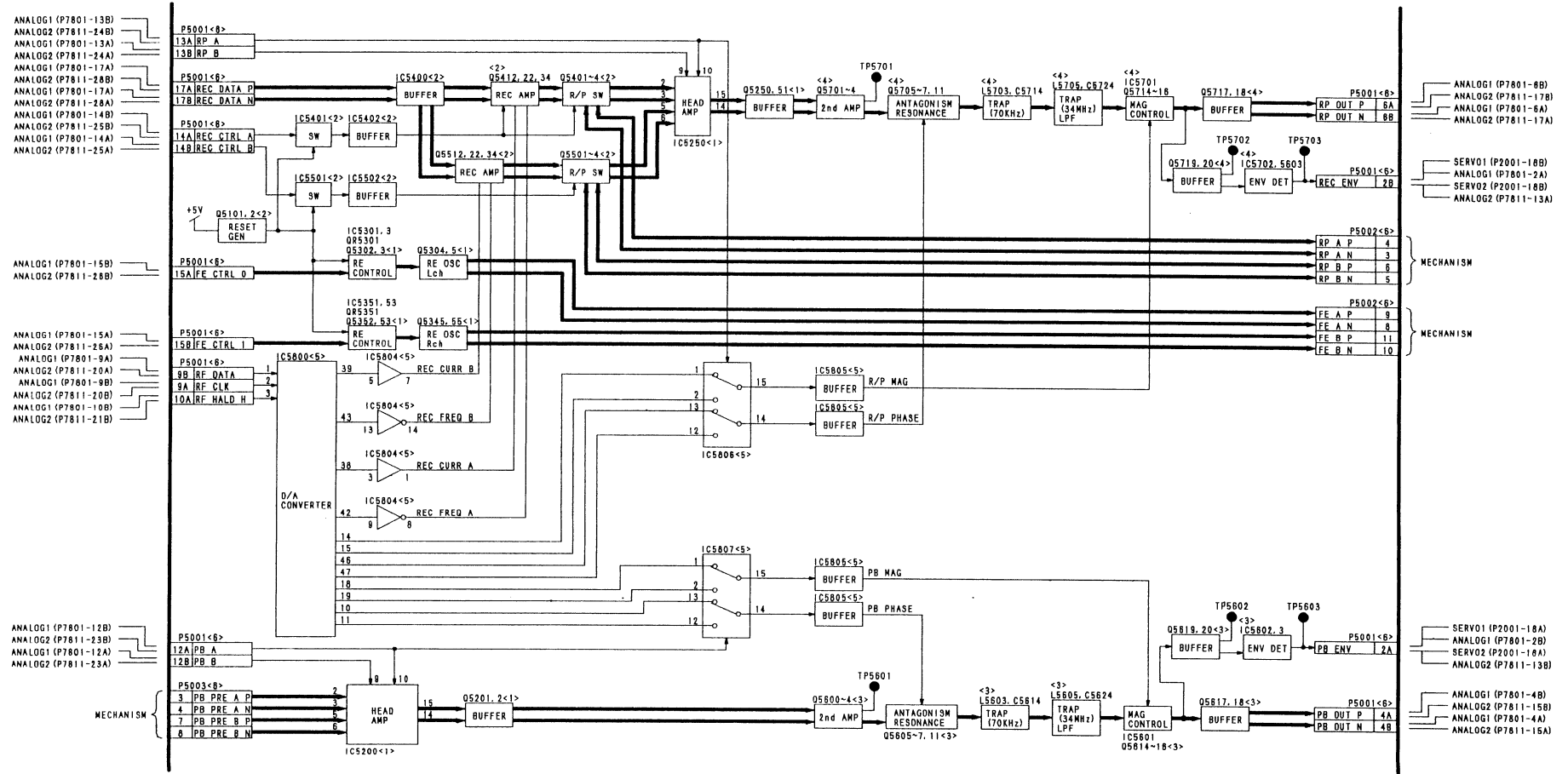
CUE ERASE ON signal is supplied to OSC & ERASE DRIVE (Q601-3, T601) circuit to oscillate 70 KHz ERASE BIAS signal. The CUE ERASE ON signal is then sent to CUE ERASE head via RF AMP P.C Board, and the bias signal is also forwarded to CTL ERASE head via analog, RF AMP P.C.Board.

◆ Others

PIO (IC510: analog 1) (IC413: analog 2) decodes parallel signal from data bus of AV DATA and distributes them to each circuit as control signals.

RF AMP BLOCK DIAGRAM

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■ RF AMP

[Outline the characteristic]

Mainly REC process is composed REC AMP circuit and Playback process is composed Pre-EQ circuit. And also EVR control signals are converted to analog by D/A circuit and send them to the REC AMP, PRE-EQ circuit.

- REC AMP buffer
- Two sets of oscillation of the rotary erase (RE)
- D/A converter
- Two sets of REC AMP circuits
- Pre-EQ
- Two sets of HEAD AMP (for REC and PB HEAD) and rotary erase circuit

[Signal flow]

◆Record

The REC DATA signal is supplied to connector P5001 from Digital p.c. board via Analog p.c. board. And it signal send to drum from connector P5002 (3 to 6) via buffer, REC AMP, R/P SW circuit.

In REC AMP (Q5412, 22, 34) (Q5512, 22, 34), it can be adjusted of frequency characteristic and recording current by EVR.

In R/P SW (Q5401 to 5404, Q5501 to 5504) circuit, which select the connection of the head. In record mode, it connects with REC AMP and in playback mode, it connects with HEAD AMP.

◆Playback

There are two kinds of signal-flow, one is for REC head and the other one is PLAY head. The Playback signal from REC head send to Head AMP (IC5250) via R/P SW. And it signal enters ANTAGONISM RESONANCE (Q5705 to 5707, Q5711) through BUFFER (Q5250, 51) and 2nd AMP (Q5701 to 5704).

Here a phase and level adjustment of every channel are done by EVR.

After that, it attenuates the CUE erase and bias frequency component (70KHz) at TRAP (L5703 and C5714) and it is send to TRAP LPF (L5705 and C5724). TRAP LPF is composed of composition in the 34MHz trap and LPF. Next, it goes to MAG CONTROL (IC5701, Q5714 to 5716). Here is adjusts a gain by EVR. After through BUFFER (Q5717 and 5718), it send to Digital p.c. board via Analog p.c. board from connector P5001.

The playback signal from PB HEAD send to HEAD AMP (IC5250) via connector P5003 from drum. And it through BUFFER (Q5201, 2), being similar flow as the playback of REC HEAD, it send to Digital p.c. board via Analog p.c. board from connector P5001 (4A, 4B).

◆EVR Control

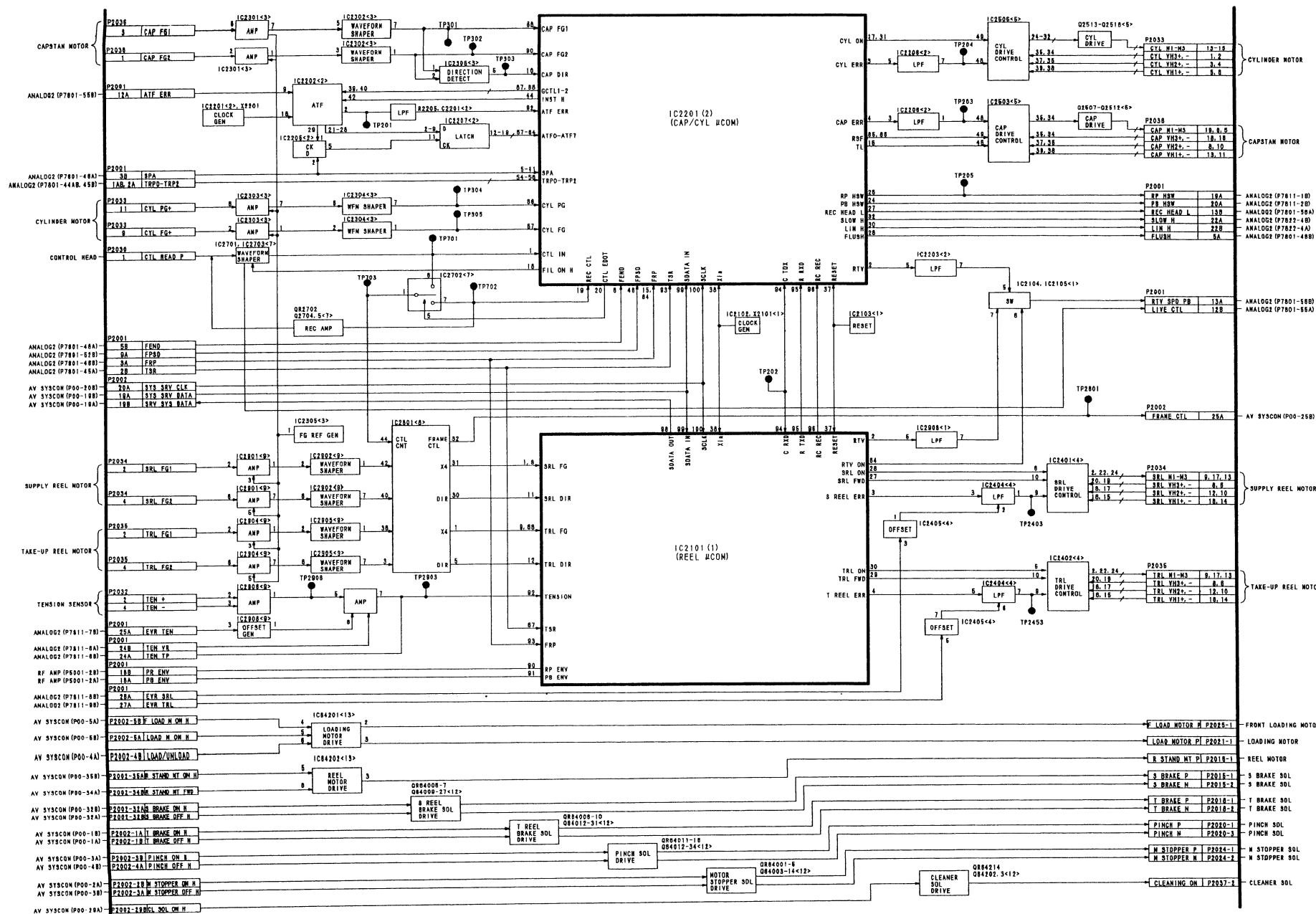
The adjustment data, which are adjusted on the service menu, they are converted to analog by D/A convertor (IC5800). And R/P MAG, R/P PHASE, PB MAG and PB PHASE signals is selected for L or Rch by IC5806 and 5807. And those signals are send to ANTAGONISM RESONANCE and MAG CONTROL circuit.

◆Rotary Erase

RE CONTROL circuit is controlled by FE CNTL (ON/OFF) signal, and RE OSC circuit is generated an erasure electric current, it is supplied to drum via connector P5002.

The erasure frequency is about 35MHz and the electric current is 40 to 80mA.

SERVO BLOCK DIAGRAM



■ SERVO

This circuit is constructed by Cylinder Motor Drive, Capstan Motor Drive, S,T Reel Motor Drive, ATF Servo and Solenoid Drive circuit. The 16Bit 2 CPUs controls all of Servo circuit except Solenoid Drive.

◆ CYLINDER SERVO

• Speed Control

The Cylinder FG signal (from P2033-9) as speed feedback information is used for speed control in recording and playback. The FG signal is amplified by IC2303 then supplied to IC2304 for waveform shape. And then it is supplied to IC2201 87 pin. It is compared with reference FG signal which is produced by CAP/CYL CPU, then it produce the Cylinder Error signal. This Cylinder Error Signal (from IC2201-3) is supplied to Cylinder Drive circuit to control the Cylinder rotation speed.

• Phase Control

The TSR signal as reference signal which is produced by Gate Array in Digital Board and HSW Signal which is made from CYL PG (from P2033-11) are compared and then, it produce the Phase error signal from this compared signal. This Phase Error Signal (from IC2201-3) is supplied to the Cylinder Drive circuit to control the Cylinder phase.

In recording, the TSR signal is produced from input signal or EXT reference signal, in playback, it is produced from EXT reference signal or inner standard (INT SG) of Video 2.

• Color Framing

2F Mode : The phase control have been made between TRP0-2 (Playback Track Number) and FRP (25Hz).

4F Mode : It does phase synchronizing between Playback Color frame by CTL duty detection and FP S0, then it goes to 2F mode after the servo stabilized.

8F Mode : It does phase synchronizing between Playback Color frame by CTL duty detection and FP S1, then it goes to 2F mode after the servo stabilized.

• Relative Speed Compensation

The Servo circuit compensate the relative speed due to change the Cylinder speed. The RF PLL does not locked during FF/REW mode, CPU calculate the relative speed quantity and output the RTV signal from IC2201-2pin.

The playback picture can be seen in FF/REW mode due to change the playback PLL center frequency by RTV signal.

◆ CAPSTAN SERVO

In recording mode, the Capstan error signal is made in comparison with FG signal (P2036-1,3) and reference signal which is made in CAP/CYL CPU. This error signal is supplied to Capstan Drive circuit and then control the capstan speed and phase.

In playback mode, it is doing the optimal tracking by the ATF servo phase control and speed control which used FG signal. (It is doing the phase control of the capstan for ATF error voltage to be minimized)

Also IC2306 detect the capstan direction using 2 phases capstan FG.

◆ REEL SERVO

The capstan mode is from STOP mode to ± 9.5 times speed in Shuttle. The reel mode is from FF/REW to $\times 2$ times speed.

• T Reel Control

In the capstan mode, it control to turn at the torque which was fitted to the diameter using the diameter data (calculating by the 2 phases T FG signal and the 2 phases S FG signal).

In the Reel mode, it is the speed control and feed forward control using FG signal.

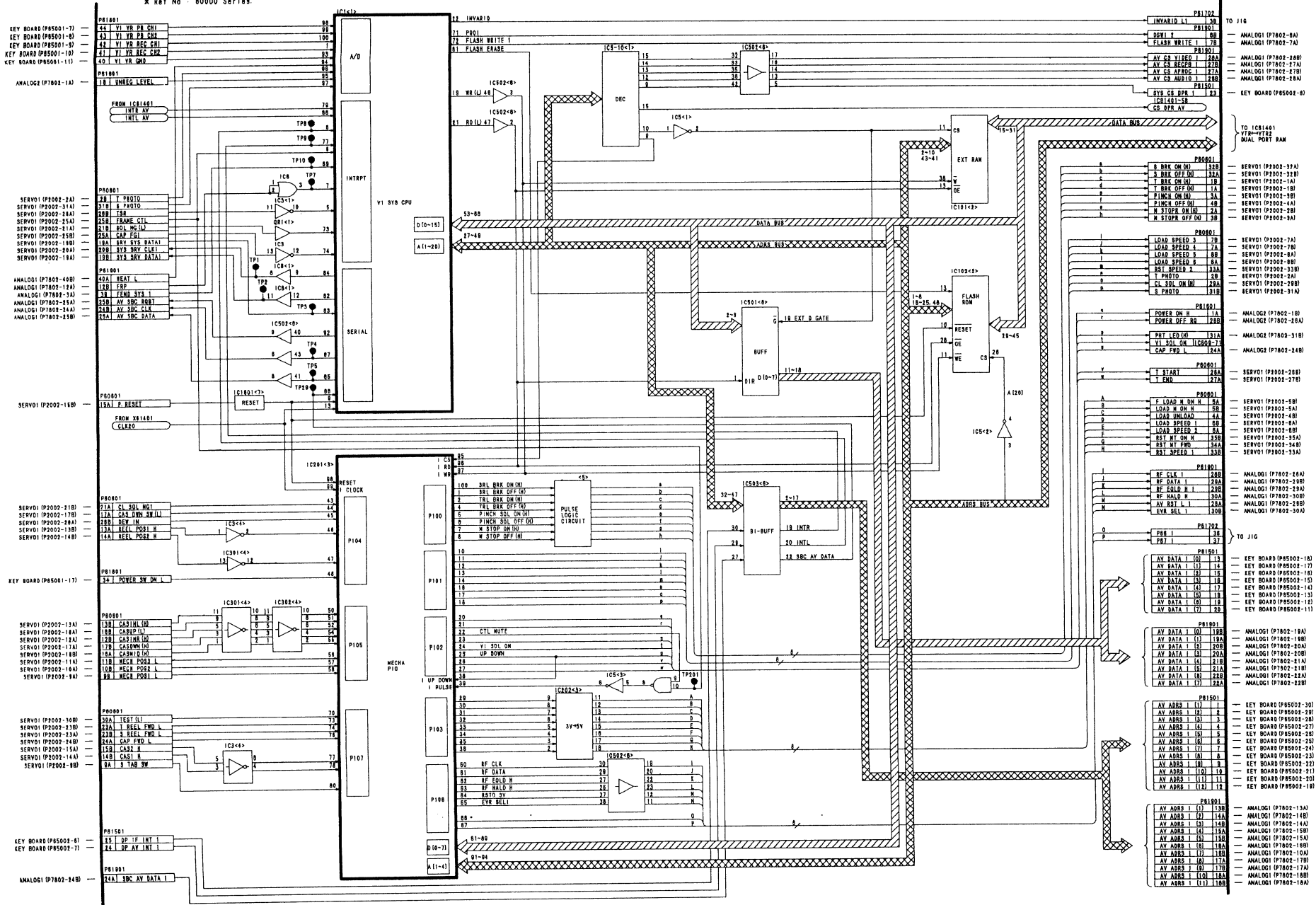
• S Reel Control

It is tension control during capstan and reel mode. The tension neutral voltage (P2001-25A) and tension gain (P2001-24A, B) are supplied to Reel CPU (IC2101) to control the S Reel.

The rotate direction of T Reel and S Reel is detected by the Gate Alley (IC2801).

AV SYSCON (VTR 1 SIDE) BLOCK DIAGRAM

X Ref No : 80000 Series.



■ AV SYSCON

This circuit is constructed with VTR1 and VTR2 Syscon Circuit. These 2 circuits are interfaced by DPR (Dual port RAM) and it use the common master oscillator (X1401) and RESET pulse (IC1601). Also SERVO 1/2, ANALOG 1/2, and KEYBOARD board is communicate with AV SYSCON.

The main CPUs are

SYS CPU	(IC1, IC701)
MECHA CPU	(IC201, IC901)
FLASH ROM	(IC102, IC802)
EXT RAM	(IC101, IC801)

◆ SYS CPU

This CPU is divided into 3 sections for A/D, INTERRUPT and SERIAL section.

The A/D section supply the analog audio level control signal from Keyboard to each circuit by DATA BUS after A/D.

The INTERRUPT section control the output timing of mechanical control signal from PIO when the signal from SERVO circuit is supplied.

The SERIAL section convert the DATA and CLK into SERIAL DATA which is supplied via BUS and it is output to SERVO and ANALOG board.

◆ MECHA PIO

The almost all control signal is supplied to SERVO board via this PIO. There are total 8 input/output port.

P104 is input port for Cleaner Solenoid, Cassette Down SW, DEW, Reel Position and Power SW.

P105 is input port for Cassette IN/UP/DOWN and Mechanism Position.

P107 is input port for Mechanism Test mode, S/T Reel FWD signal and CAP FWD signal.

P100 is output port for S/T Break Solenoid, Pinch Roller and M Stopper Solenoid.

P101 is output port for Loading Motor Photo LED and Cleaner Solenoid ON signal.

P102 is output port for Power ON/OFF, Photo LED and CAP FWD to Analog board and Tape Start/END signal for Servo board.

P103 output the Loading Motor Control Signal via 3V→5V converter. It because the Loading Motor is 5V drive.

P106 output the CLK and DATA of RF, EQ data of EVR and Head Amp data to the Analog board.

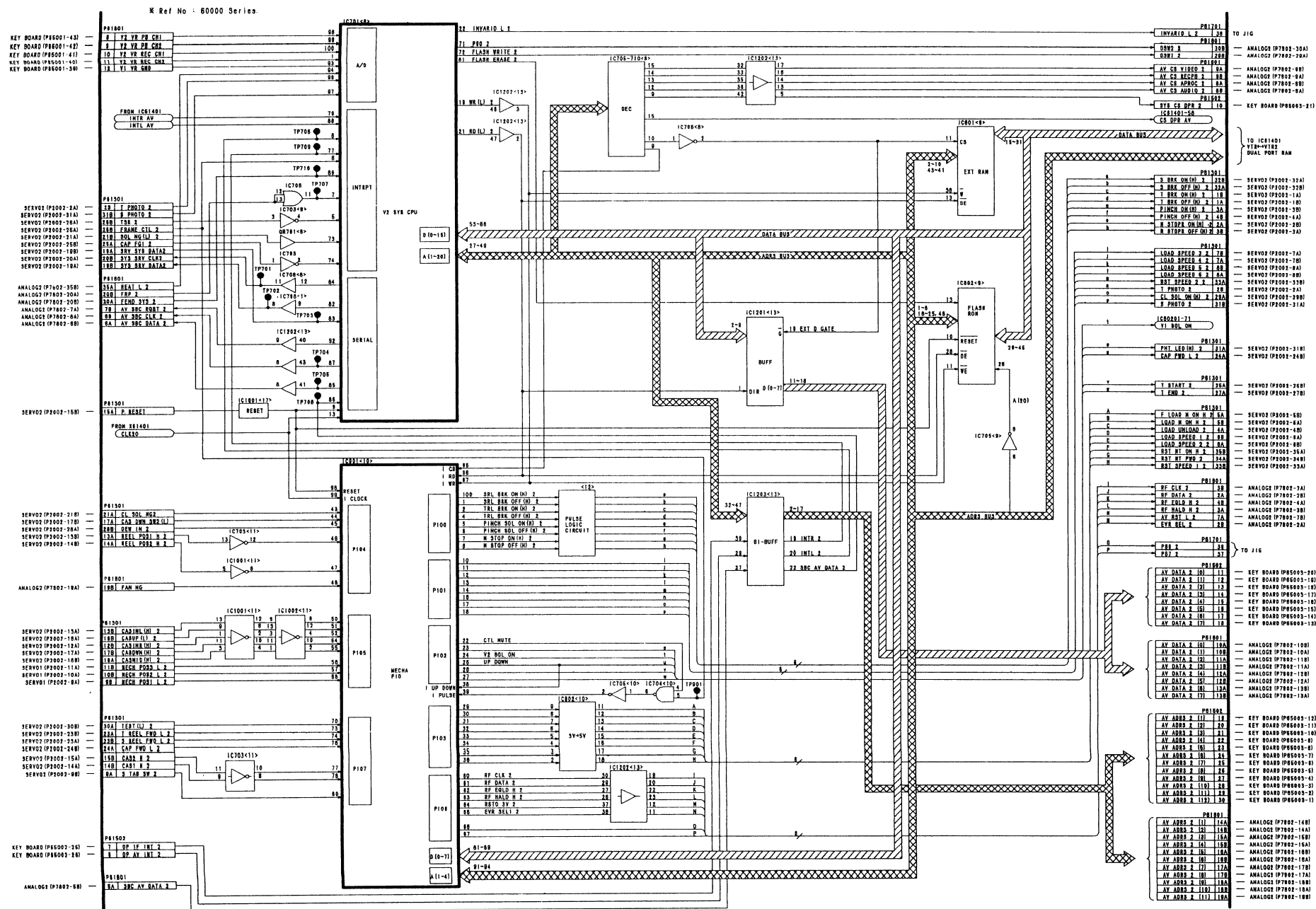
◆ FLASH ROM

Usually, Syscon Software (P-ROM) has been changed and version up physically however, version up is possible unless changes the P-ROM physically due to use the Intel Flash ROM this time. The exclusive cable connecte between PC and Digital board and the PC is used for writing.

◆ EXT RAM

This is extend RAM to proceed the SYS CPU signal efficiently.

AV SYSCON (VTR 2 SIDE) BLOCK DIAGRAM



■ AV SYSCON

This circuit is constructed with VTR1 and VTR2 Syscon Circuit. These 2 circuits are interfaced by DPR (Dual port RAM) and it use the common master oscillator (X1401) and RESET pulse (IC1601). Also SERVO 1/2, ANALOG 1/2, and KEYBOARD board is communicate with AV SYSCON.

The main CPUs are

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P102 is output port for Power ON/OFF, Photo LED and CAP FWD to Analog board and Tape Start/END signal for Servo board.

P103 output the Loading Motor Control Signal via 3V→5V converter. It because the Loading Motor is 5V drive.

P106 output the CLK and DATA of RF, EQ data of EVR and Head Amp data to the Analog board.

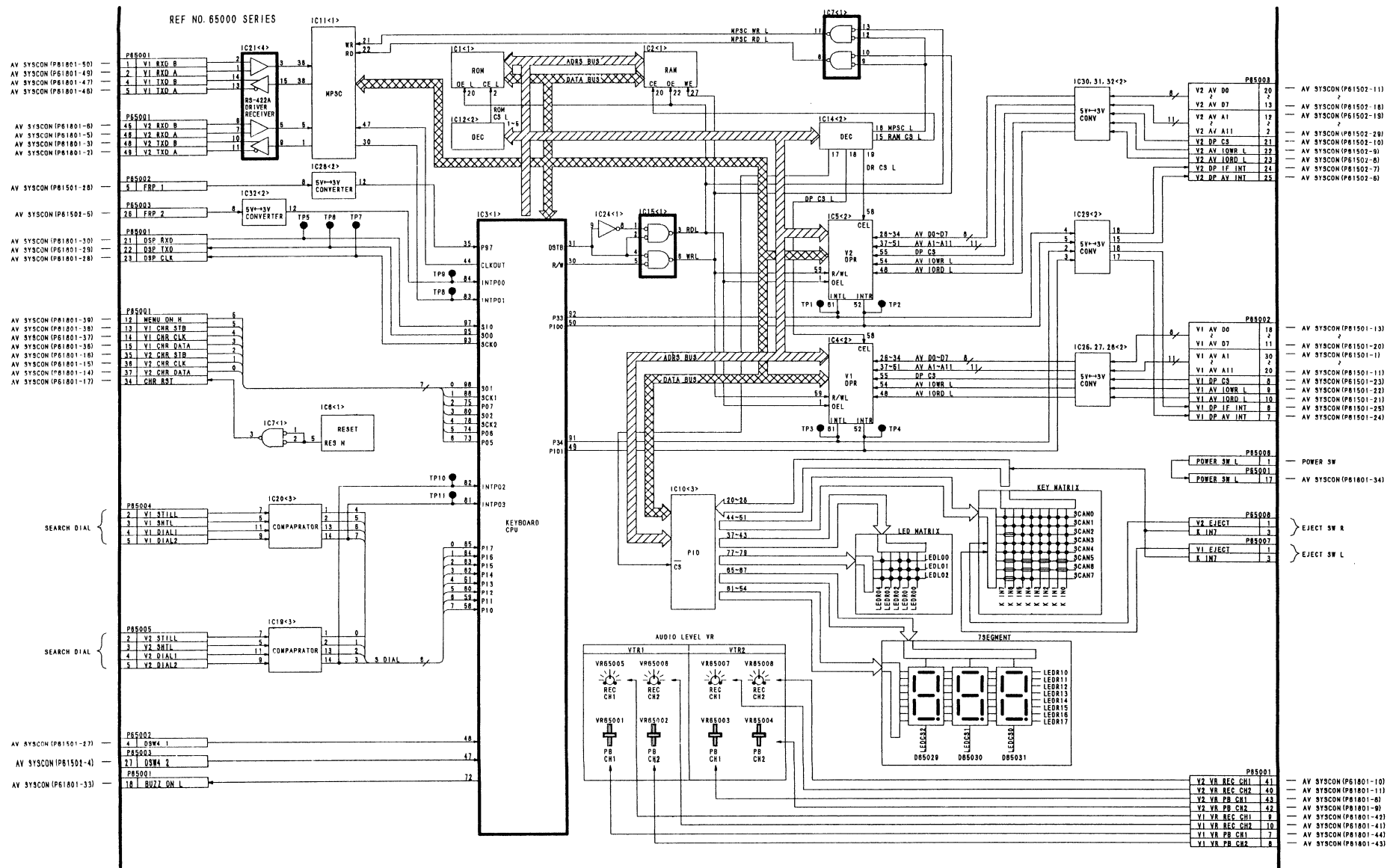
◆ FLASH ROM

Usually, Syscon Software (P-ROM) has been changed and version up physically however, version up is possible unless changes the P-ROM physically due to use the Intel Flash ROM this time. The exclusive cable connect between PC and Digital board and the PC is used for writing.

◆ EXT RAM

This is extend RAM to proceed the SYS CPU signal efficiently.

5—52



■ KEYBOARD

This board control the key matrix, LED matrix, search dial and RS-422 communication by 32 bit CPU (IC3). This CPU also communicate with VTR1 and VTR2 via DPR (Dual Port RAM IC4, IC5). The VTR1 and VTR2 data from AV SYSCON is changed from 3V to 5V before supply the DPR because this board is 5V drive.

◆ Audio Level Control

The audio level control signal coming from LEVEL VR is output to AV SYSCON through this board. After A/D at AV SYSCON, the audio data is supplied to each circuit and control the audio IN/OUT level.

◆ RS-422A

The RS-422A control is performed by CPU and MPSC (Multi Protocol Serial Converter IC11) and the data is input/output via Driver/Receiver (IC21). The TXD is transmission data and the RXD is receive data.

◆ Communication with DISPLAY

The communication with DISPLAY is controlled by the transmission data (DSP TXD P65001-22), the receive data (DSP RXD P65001-21) and the DSP CLK (P65001-23).

◆ Character

The character which is output to VTR1 and VTR2 as MENU is output from generator in the Keyboard CPU. This is output from P65001-13-15, 35-37 to AV SYSCON.

◆ ROM, RAM

This board have ROM (IC1) and RAM (IC2). ROM is used for software and RAM is used for memory. The RAM memorize the following items.

USER SET UP MENU

HOURLY METER

SERVICE MENU

◆ Service Mode SW

DSW4-1 and DSW4-2 is switch for the service mode and the factory mode. DSW4-1 is High and DSW4-2 is Low when servicing.

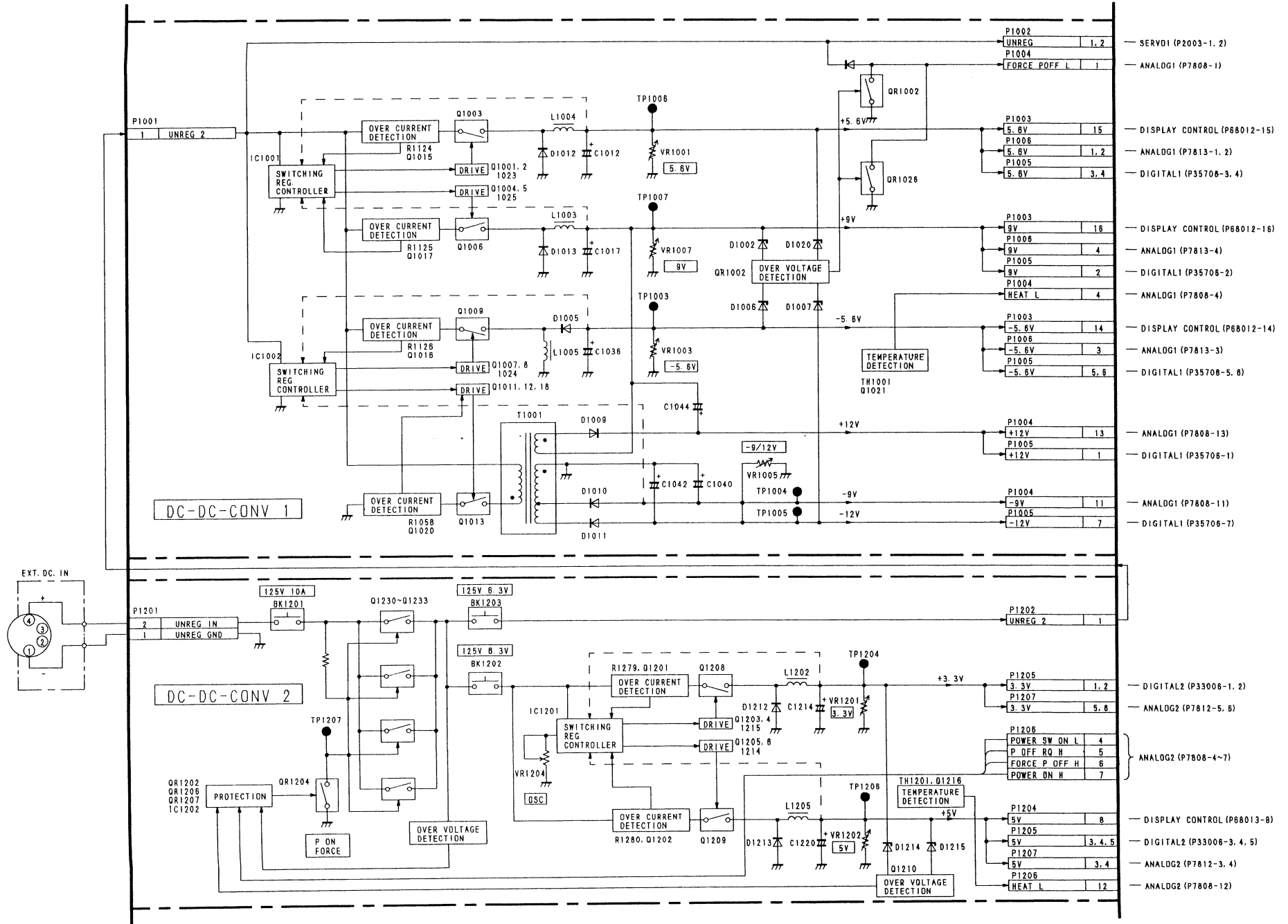
◆ Alarm Control

BUZZ ON L (P65001-18) is changed the number of pulse when No.304 BEEP setting in the User Menu is as follows.

	MODE	Nbr of Pulse
OFF	-----	0
ENTRY	IN/OUT ENTRY	1
	OPERATION	3
	AUTO-OFF	7
ALL	IN/OUT ENTRY	1
	IN/OUT POINT	1
	OPERATION ERROR	3
	AUTO OFF	7

DC DC CONV 1 & 2 BLOCK DIAGRAM

5-54



■DC-DC-CONV 1 & 2

◆DC-DC-CONV 2

EXT DC INPUT voltage is send to DD-CONV 2 P.C. board.

The DC voltage +3.3V and +5V, which are made by switching regulator circuit. The PROTECTION circuit (IC1202, QR1202, 1206 and 1207) is controlled Q1230 to 1233 for cut off the voltage, when it circuit is received the over voltage detection signal or request the shut down compulsorily, after Auto off occurred.

In switching regulator circuit, there is detection of over current (R1279, 80, Q1201 and 1202). In case of detect the over current, Q1208 and 1209 are become OFF for cut off the voltage, those transistor are controlled by SWITCHING REG CONTROLLER (IC1201).

And if high temperature is detected by TEMPERATURE DETECTION (TH1201 and Q1216), HEAT L signal send to AV SYSCON P.C. board for power off compulsorily.

◆DC-DC-CONV 1

UNREG voltage is supplied from DD-CONV 2 P.C. board.

The DC voltage +5.6V, \approx 5.6V and +9V are made by switching regurator circuit and also +12V, \approx 12V and \approx 9V are made by T1001 and those voltage are supply to each P.C. board.

In case of over voltage is detected by OVER VOLTAGE DETECTION (QR1002 and 1026), FORCE POFF L signal, and also detect the high temperature by HIGH TEMPERATURE DETECTION (TH1001 and Q1021), HEAT L signal send to AV SYSCON P.C. board for power off compulsorily.

In switching regulator circuit, there is detection of over current (R1124 to 1126, R1058, Q1015 to 1017, Q1020). In case of detect the over current, Q1003, 1006, 1009 and 1013 are became OFF for cut off the voltage, those transistor are controlled by SWITCHING REG CONTROLLER (IC1001 and 1002).

SECTION 6

EXPLODED VIEWS & PARTS LIST

Note:

1. *Be sure to make your orders of replacement parts according to this list.
2. Unless otherwise specified, all resistors are in OHMS, K=1,000 OHMS, all capacitors are in MICROFARADS (μ F), P= μ F.
3. The P.C. Board units marked with "■" shown below the main assembled parts.
4. The parts marked with © on the exploded view show the electric parts.
5. **IMPORTANT SAFETY NOTICE**
Components identified with the mark Δ have the special characteristics for safety. When replacing any of these components, use only the same type.
6. The marking (RTL) indicates the retention time is limited for this item.
After the discontinuation of this assembly in production, it will no longer be available.

<<Abbreviations for part>>

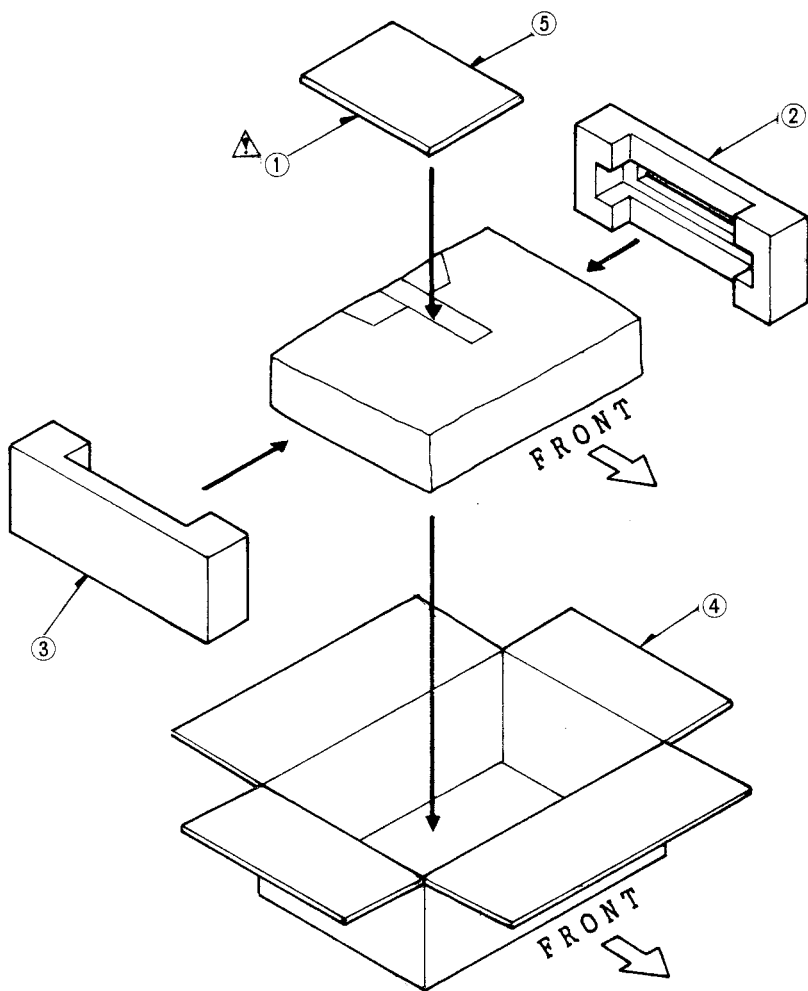
<NAME>		<DESCRIPTIONS>
C. CAPACITOR		: CERAMIC CAPACITOR
C. CAPACITOR	CH	: CERAMIC CHIP CAPACITOR
E. CAPACITOR		: ELECTROLYTIC CAPACITOR
G. CAPACITOR		: GLASS CAPACITOR
M. CAPACITOR		: MICA CAPACITOR
P. CAPACITOR		: PLASTIC FILM CAPACITOR
S. CAPACITOR		: SEMI-CONDUCTOR CAPACITOR
T. CAPACITOR		: TANTALUM CAPACITOR
TRIMMER		: TRIMMER
C. RESISTOR		: CARBON RESISTOR
F. RESISTOR		: FUSE RESISTOR
M. RESISTOR		: METAL OXIDE RESISTOR
M. RESISTOR	CH	: METAL OXIDE CHIP RESISTOR
S. RESISTOR		: SOLID RESISTOR
V. RESISTOR		: VARIABLE RESISTOR
W. RESISTOR		: WIRE WOUND RESISTOR
COMBI. TR-R		: TRANSISTOR-RESISTOR COMBINATION PARTS
COMBI. R-R		: RESISTOR-RESISTOR COMBINATION PARTS
COMBI. C-R		: CAPACITOR-RESISTOR COMBINATION PARTS
COMBI. C-R-R		: CAPACITOR-RESISTOR-COIL COMBINATION PARTS
P.C. BOARD		: PRINTED CIRCUIT BOARD
W/COMPONENT		: WITH COMPONENT

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MECHANICAL REPLACEMENT PARTS LIST & EXPLODED VIEWS

Components identified with the mark have the special characteristics for safety. When replacing any of these components, use only the same type.



AJ-LT75E

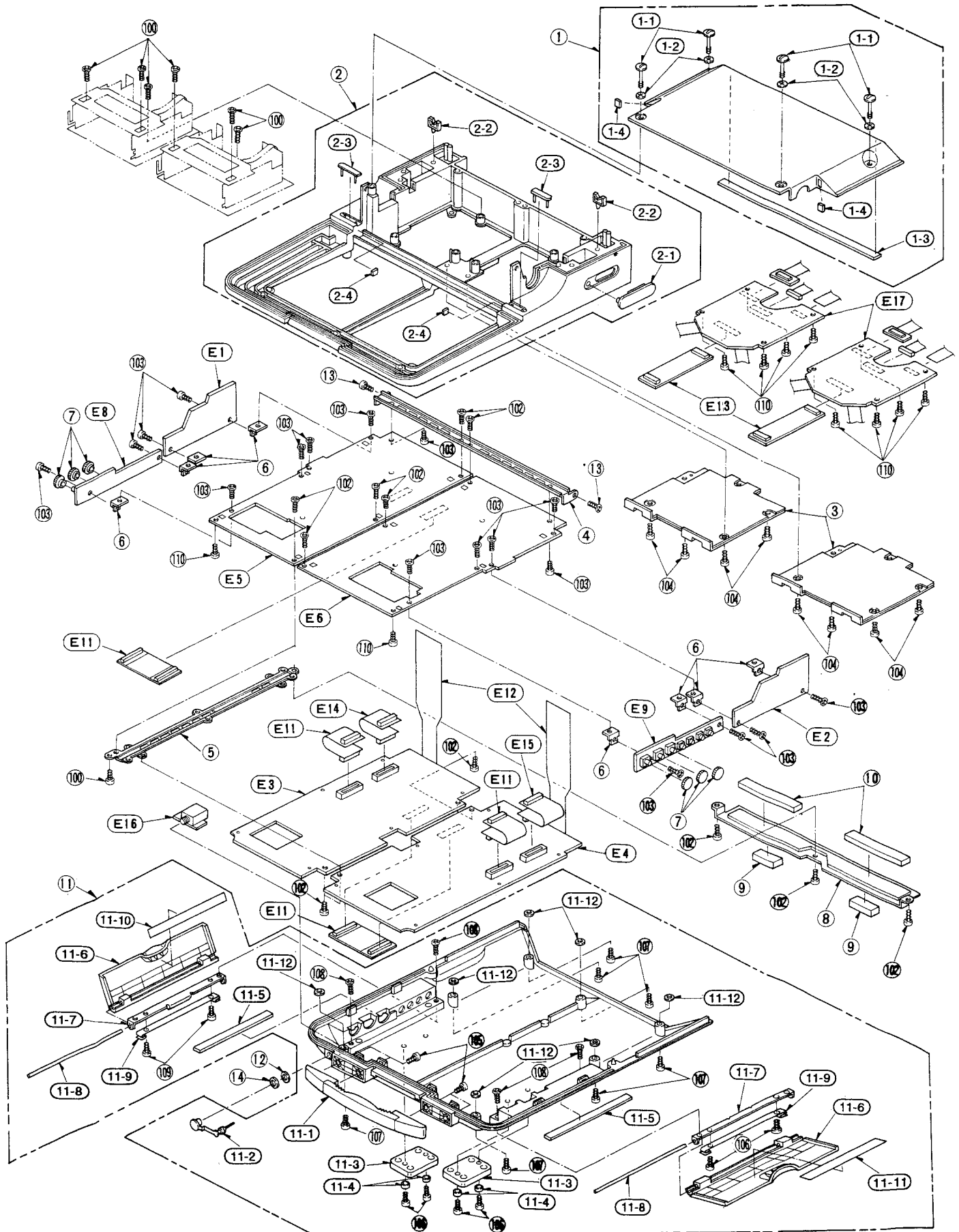
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CHASSIS FRAME ASSEMBLY (1)

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CHASSIS FRAME ASSEMBLY (1)




Components identified with the mark have the special characteristics for safety. When replacing any of these components, use only the same type.

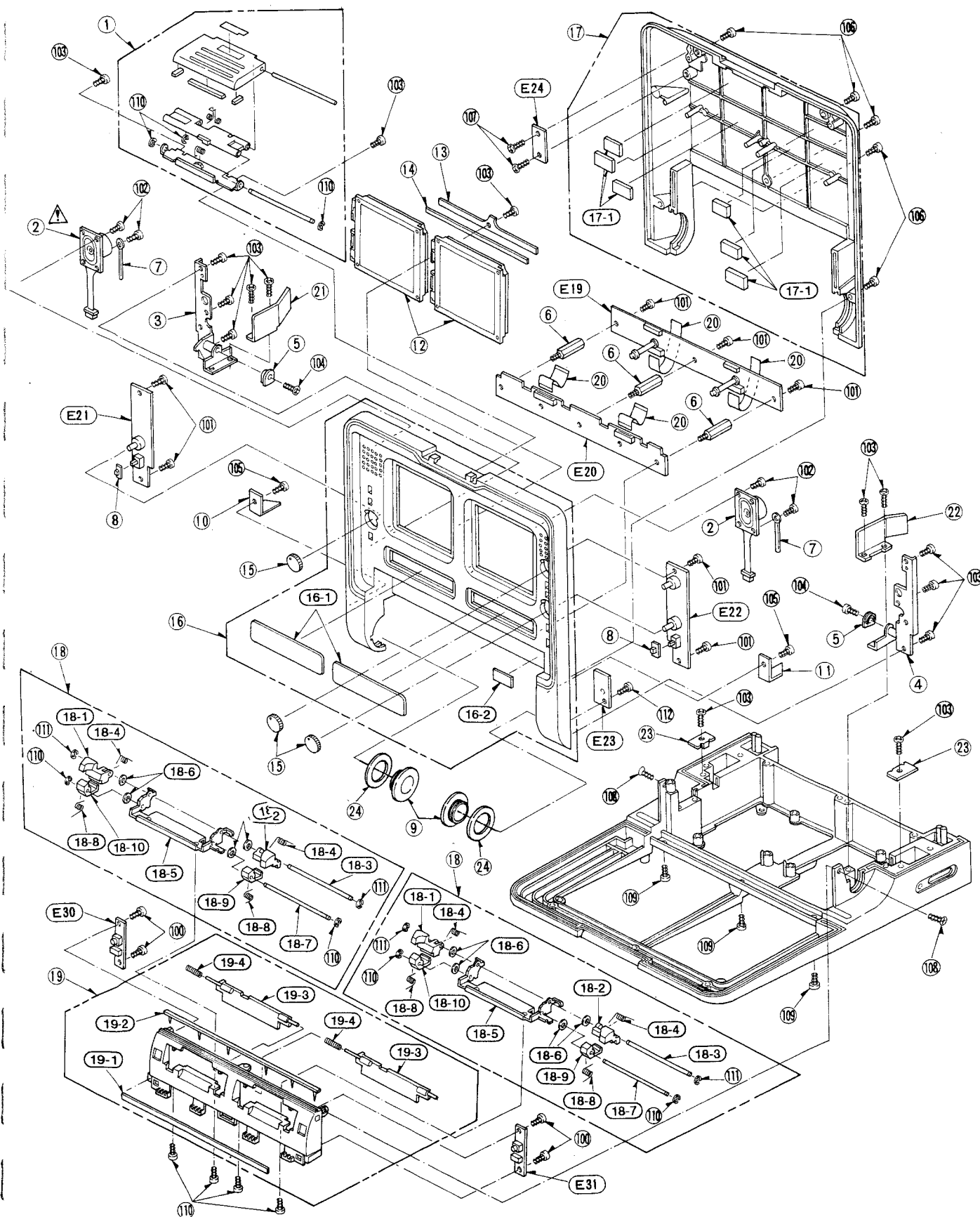
CHASSIS FRAME ASSEMBLY (2)

AJ-LT75E

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VYQ1370	BACKLE U	1		100	XTV3+8GFR	SCREW	4	
2	VEK8020	SPEAKER U	2		101	XYN3+K8	SCREW	11	
3	VYQ1503	TURNING ANGLE (L)	1		102	XSB3+6	SCREW	4	
4	VYQ1504	TURNING ANGLE (R)	1		103	XYN3+C8	SCREW	14	
5	VMX2652	EDGE SPACER	2		104	XYN26+K6FR	SCREW	2	
6	VMS6175	P. C. B. POST	3		105	XYN3+F8	SCREW	2	
7	VJF1034	CLAMPER	2		106	XSB4+6FZ	SCREW	5	
8	VGU7485	SLIDE KNOB	2		107	XYN26+K8	SCREW	2	
9	VMM0427	CONDUCTIVE RING (A)	2		108	XSS3+8FZS	SCREW	2	
10	VMZ2704	INSULATION SHEET (L)	1		109	XTV3+8G	SCREW	3	
11	VMZ2705	INSULATION SHEET (R)	1		110	XUC2FP	E-RING	7	
12	EDT0A030AF	LCD MONITOR	2	<M>	111	XUC25FP	E-RING	4	
13	VMP5294	LCD MOUNT ANGLE	1		112	XYN26+K5	SCREW	1	
14	VMT0815	LCD HOLDER ANGLE CUSHION	1						
15	VXU1457	VR KNOB U	3						
16	VYP6566	LCD PANEL (1) U	1						
16-1	VKW2340	COUNTER WINDOW	2		E30		EJECT SW L C.B.A.	1	
16-2	VG0460	DVCPRO BADGE	1		E31		EJECT SW R C.B.A.	1	
17	VYF2446	LCD COVER (1) U	1		E21		LCD CONTROL L C.B.A.	1	
17-1	VMT0814	LCD HOLDER CUSHION	6		E22		LCD CONTROL R C.B.A.	1	
18	VYQ1369	CASSETTE GUIDE U	2		E19		DISPLAY CONTROL C.B.A.	1	
18-1	VGQ4009	CASSETTE GUIDE (L)	2		E20		DISPLAY C.B.A.	1	
18-2	VGQ4010	CASSETTE GUIDE (R)	2		E23		TOP SW C.B.A.	1	
18-3	VMS5864	CASSETTE COVER	2		E24		TOP LED C.B.A.	1	
18-4	VMB2922	CASSETTE GUIDE SPRING	4						
18-5	VMP4863	CASSETTE GUIDE ANGLE	2						
18-6	VMX2562	WASHER	8						
18-7	VMS6017	GUIDE CAM SHAFT	2						
18-8	VMB2986	CAM SPRING	4						
18-9	VDK0151	CASSETTE GUIDE CAM (L)	2						
18-10	VDK0152	CASSETTE GUIDE CAM (R)	2						
19	VYP6357	FRONT PANEL (1) U	1						
19-1	VMT0833	GASKET	1						
19-2	VMG1045	TOP DRI PROOF	1						
19-3	VKF2688	BLINDER PANEL	2						
19-4	VMB3125	BLIND SPRING	2						
20	VMJ20C6080T0	FFC	4						
21	VMP5339	CABLE GUARD ANGLE (L)	1						
22	VMP5340	CABLE GUARD ANGLE (R)	1						
24	VMM0428	CONDUCTIVE RING (B)	2						
23	VMP5418	CABLE HOLDER ANGLE	2						

CHASSIS FRAME ASSEMBLY (2)

Components identified with the mark  have the special characteristics for safety. When replacing any of these components, use only the same type.

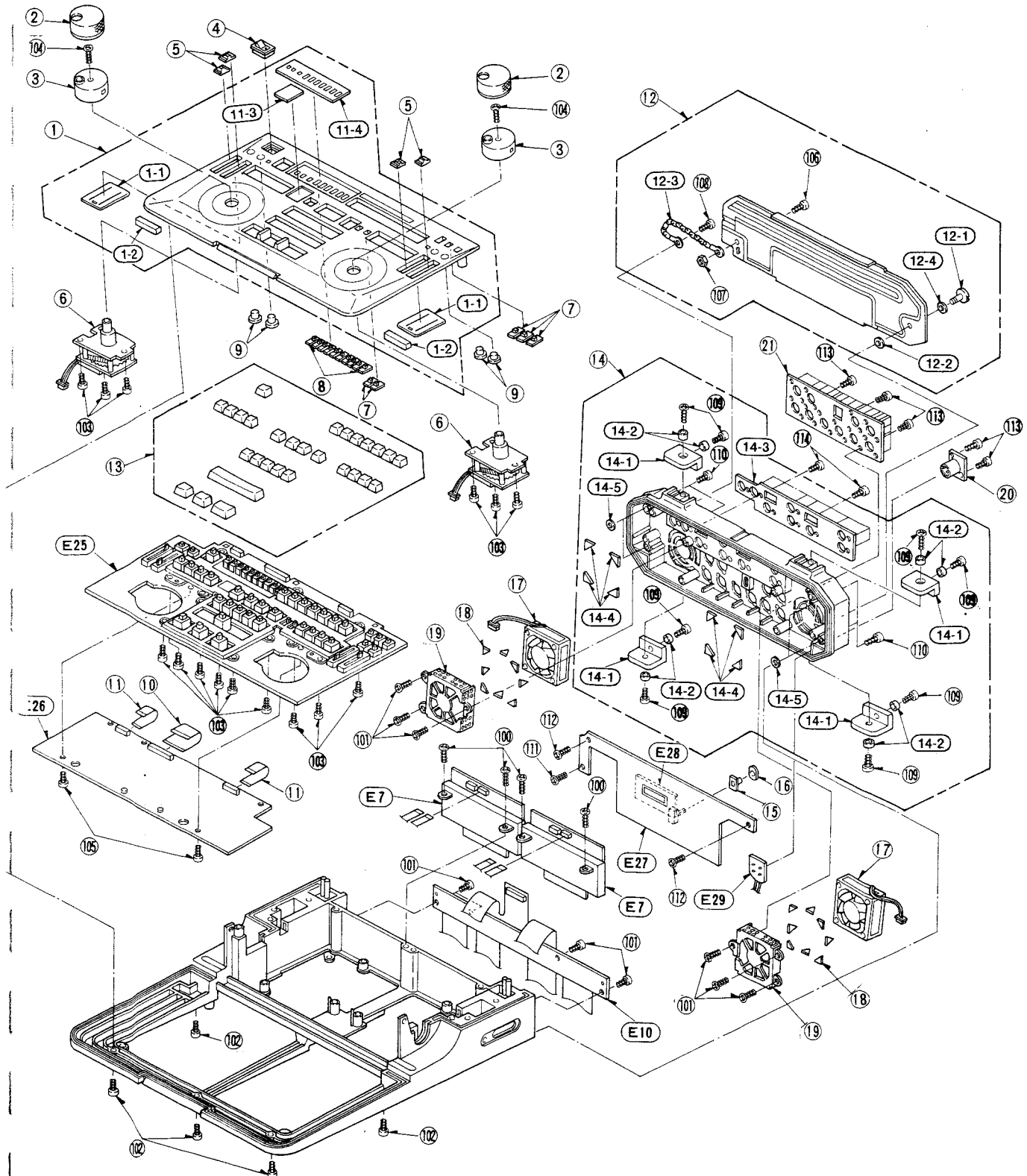


CHASSIS FRAME ASSEMBLY (3)

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CHASSIS FRAME ASSEMBLY (3)

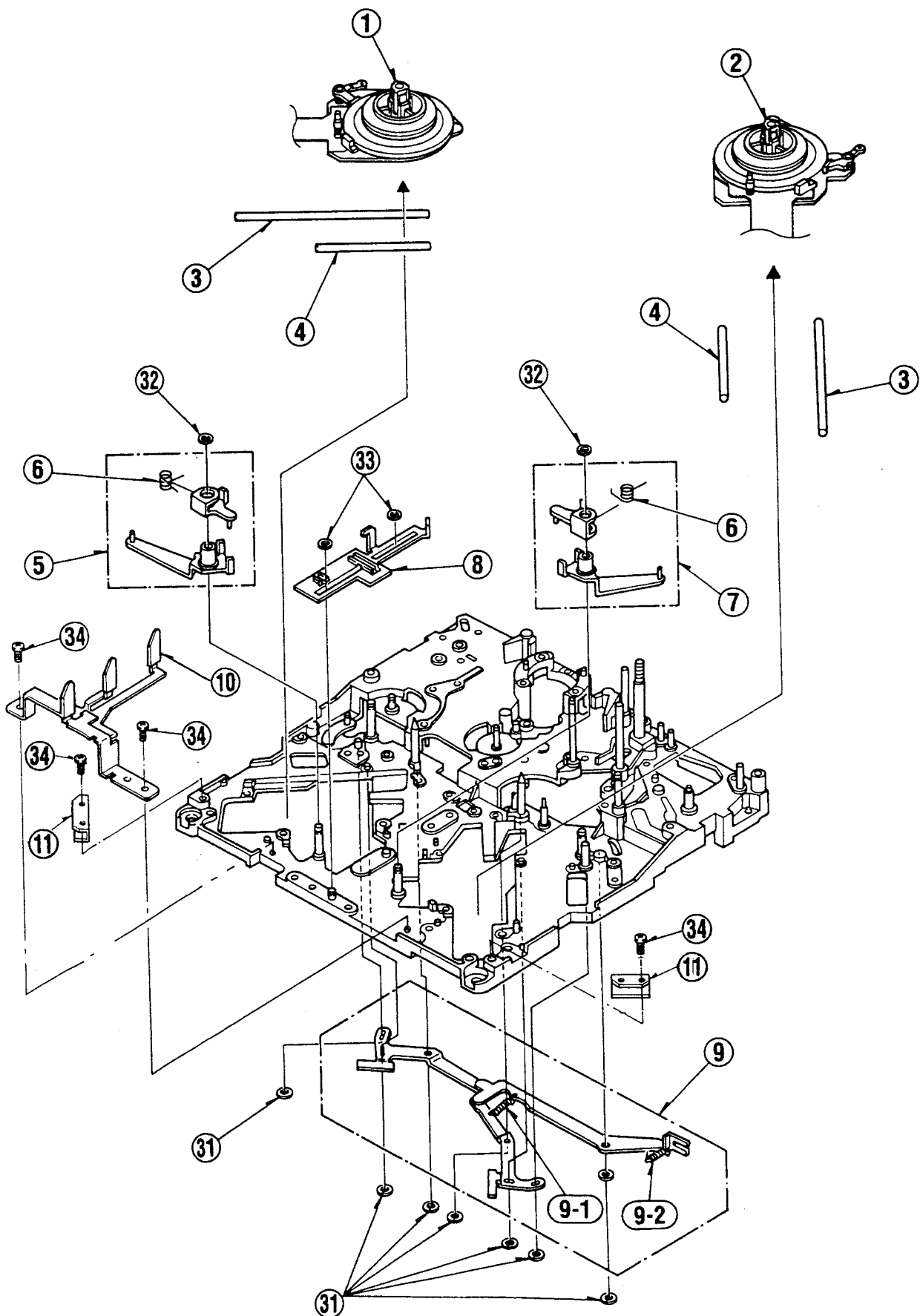



MECHANICAL CHASSIS ASSEMBLY (1)

AJ-LT75E

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MECHANICAL CHASSIS ASSEMBLY (1)



Components identified with the mark  have the special characteristics for safety. When replacing any of these components, use only the same type.


MECHANICAL CHASSIS ASSEMBLY (2)

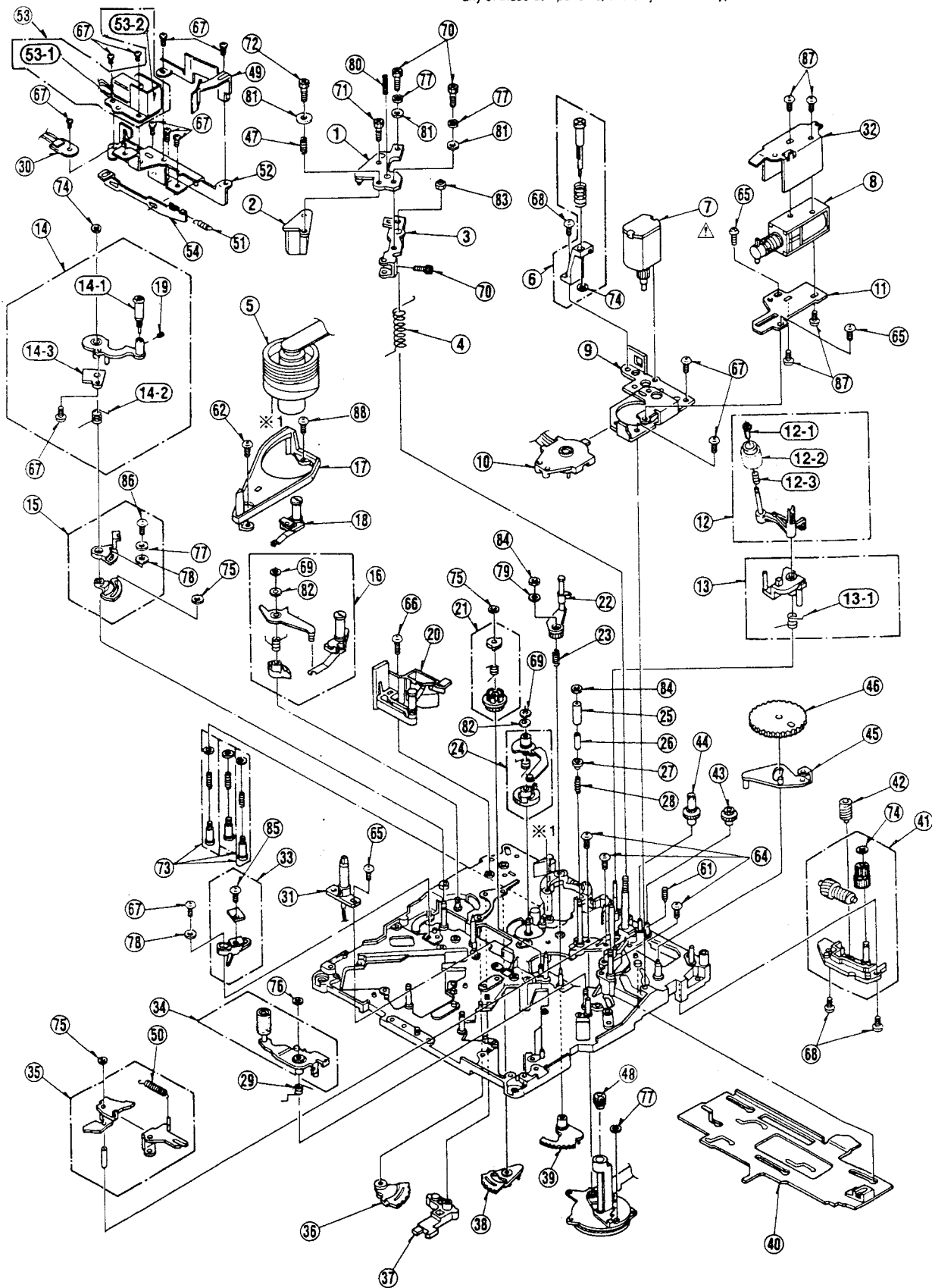
AJ-LT75E

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VXA5554	A/C HEAD BASE (1) U	1	
2	YBR0301	A/C HEAD	1	<M>
3	VXA5555	A/C HEAD BASE (2) U	1	
4	VMB2935	A/C HEAD HIGHT SPRING	1	
5	VEG1337	CYLINDER UNIT	1	<M>
6	VXA5715	EMARGENCY SHIFT HOLDER U	1	
7	VEM0645	LOADING MOTOR (1) AU	1	<M>
8	YSJ0217	PINCH SOLENOID	1	<M>
9	VXA5584	MOTOR ANGLE U.	1	
10	VES0814	MODE SW U	1	<M>
11	VMA9376	PINCH SOLENOID BASE	1	
12	VXL2748	CLEANING ARM AU	1	
12-1	VMX2150	CLEANER ROLLER HOLDER	1	
12-2	VXP1808	CLEANER ROLLER UNIT	1	
12-3	VMB3114	CLEANER ROLLER SPRING	1	
13	VXL2707	T2 ARM U.	1	
13-1	VMB2932	T2 ARM SPRING	1	
14	VXL2734	TENSION ARM NU.	1	<M>
14-1	VXP1761	TENSION ROLLER	1	
14-2	VMB2931	TENSION LEG SPRING	1	
14-3	VXA5853	MAGNET HOLDER NU	1	
15	VXA5791	TENSION LEG SPRING HOOK U	1	
16	VXL2709	S1 LOADING ARM U	1	<M>
17	VMD2533	LOADING RAIL	1	
18	VXA5852	T1 BOAT UA	1	<M>
19	VHD0561	HEX SCREW	1	
20	VXA6052	S POST BASE AU	1	<M>
21	VXP1683	T4 CONNECTION GEAR U	1	
22	VXL2772	T4 ARM U	1	
23	VMB2950	T4 THRUST SPRING	1	
24	VXL2802	T LOADING ARM NU	1	
25	VMS5906	T3 UPPER FRANGE	1	
26	VMS5905	T3 SLEEVE	1	
27	VMS5904	T3 LOWER FRANGE	1	
28	VMB2929	T3 SPRING	1	
29	VMB2933	PINCH RELEASE SPRING	1	
30	VEK7927	INSULATION SENSOR	1	
31	VEK7691	LED HOLDER U.	1	
32	VMA9411	PINCH SOLENOID ANGLE	1	
33	VXA5820	TENSION SENSOR U.	1	
34	VXL2684	PINCH ARM U.	1	<M>
35	VXL2588	PINCH GUIDE ARM U	1	
36	VXA5570	T SECTOR GEAR U	1	
37	VXL2582	TENSION LEG. GUIDE ARM U	1	
38	VXA5567	S SECTOR GEAR U	1	
39	VXA5564	T4 SECTOR GEAR U	1	
40	VXA5563	MAIN ROD U	1	
41	VXA5827	THRUST SHIFT HOLDER U	1	
42	VDG1166	MOTOR WARM GEAR	1	
43	VDG1288	MOTOR EMARGENCY GEAR A(A)	1	
44	VDG1267	MOTOR EMARGENCY GEAR B(A)	1	
45	VXL2591	MAIN CAM ARM U	1	
46	VDG1168	MAIN CAM GEAR	1	<M>
47	VMB2937	A/C HEAD ADJUST SPRING	1	
48	VXQ0556	THRUST SCREW U.	1	<M>
49	VXA5770	T1 GUIDE U.	1	
50	VMB2934	SPRING	1	
51	VMB3051	CLEANER RETURN SPRING	1	
52	VXA5768	CLEANER BASE 1 U.	1	
53	VXA5769	CLEANER SOLENOID U.	1	
53-1	YSJ0222	CLEANER SOLENOID	1	
53-2	VMA9521	CLEANER SOLENOID BASE	1	
54	VMM0415	CLEANER INSULATION	1	
61	VHD0356	SCREW	1	
62	XQN2+A3	SCREW	1	
64	XQN2+A35FZ	SCREW	3	
65	XQN2+AM2	SCREW	3	
66	XQN2+AM4	SCREW	1	
67	XQN2+CF3	SCREW	12	
68	XQN2+CF4	SCREW	3	
69	XUC12FP	E-RING	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
70	XVE2B4FZ	HEX SCREW	3	
71	XVE2B6FP	HEX SCREW	1	
72	XVE2B12FP	HEX SCREW	1	
73	VXQ0439	SCREW	3	
74	VMX0067	WASHER	3	
75	VMX1061	WASHER	3	
76	VMX1079	CUT WASHER	1	
77	XWA2B	WASHER	4	
78	XWE2	WASHER	2	
79	XWE16VW	WASHER	1	
80	XXE2A6FP	HEX SCREW	1	
81	XWG2	WASHER	3	
82	XWGV15Z32G	WASHER	2	
83	VHDO045	NYLON NUT	1	
84	VHNO312	NUT	2	
85	XQN2+AQ3. 5FZ	SCREW	1	
86	XQN2+AJ5	SCREW	1	
87	XQN2+A1. 5	SCREW	4	
88	XQN2+A4	SCREW	1	
89	VMX1394	CUT WASHER	1	
*	VXY1283Z1	MECHANISM	1	<M>

MECHANICAL CHASSIS ASSEMBLY (2)

Components identified with the mark  have the special characteristics for safety. When replacing any of these components, use only the same type.

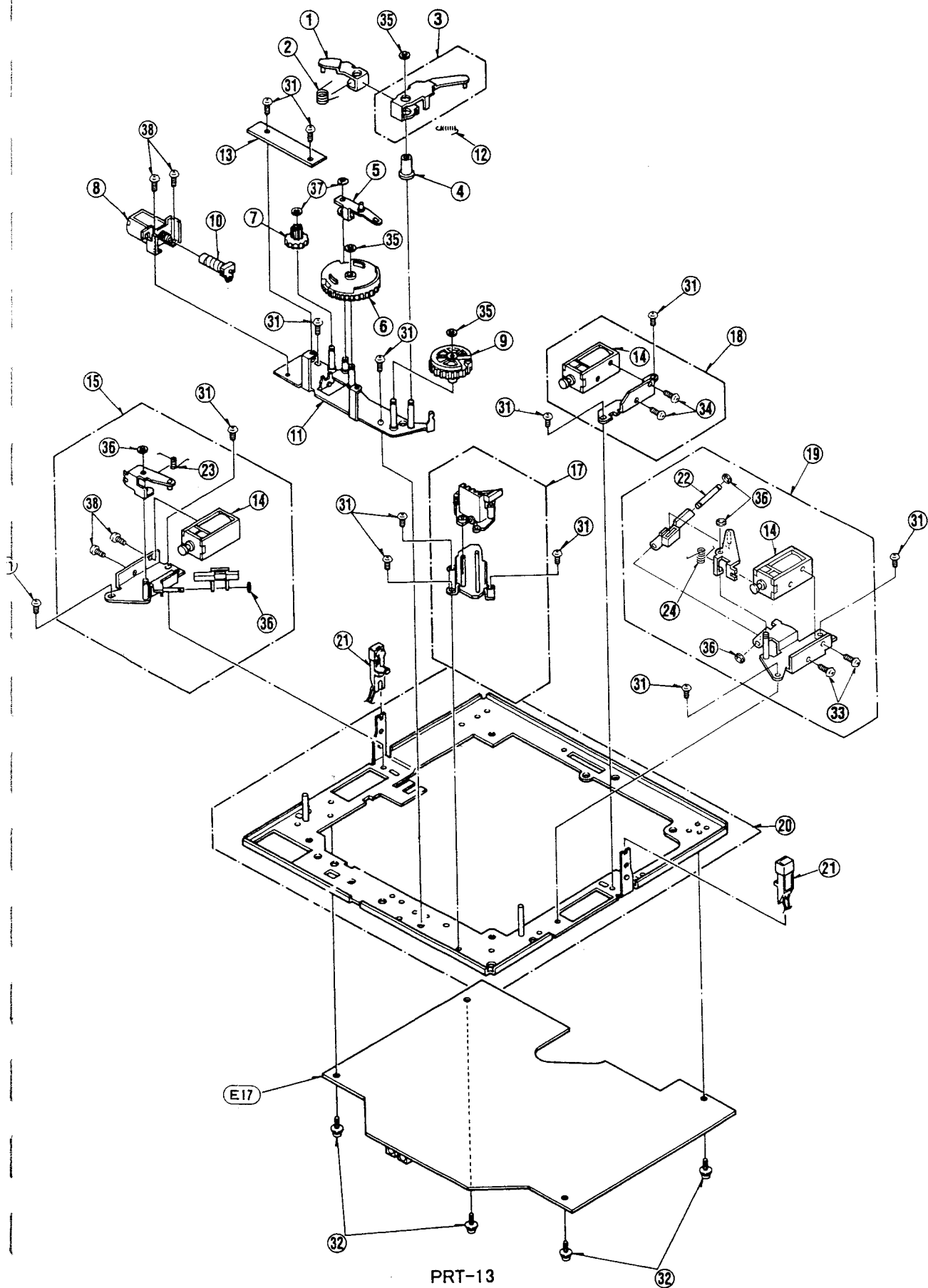


SUB CHASSIS ASSEMBLY

AJ-LT75E

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SUB CHASSIS ASSEMBLY

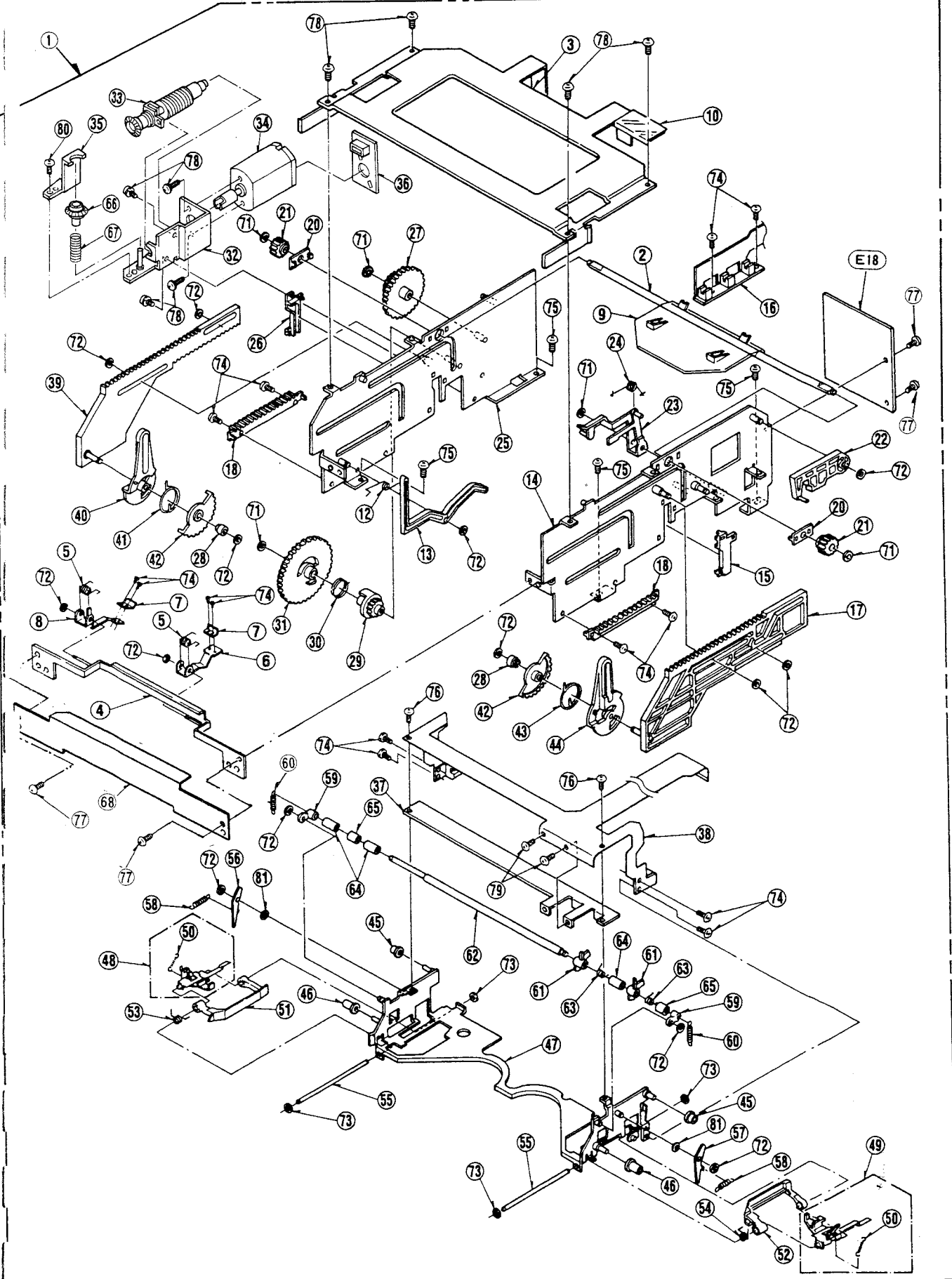


CASSETTE COMPARTMENT ASSEMBLY

AJ-LT75E

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VXA5979	CASSETTE COMPARTMENT U	1	<M>	76	XQN16+A25	SCREW	2	
2	VMS5865	MAIN SHAFT	1		77	XQN2+A3	SCREW	2	
3	VMA9536	TOP PLATE	1		78	XYN2+C3	SCREW	8	
4	VXA5761	FRONT GUIDE 1 U.	1		79	VHD0678	SCREW	6	
5	VMB3075	M GUIDE SPRING	2		80	XMGV2Y4G	WASHER	1	
6	VML3191	M GUIDE RIGHT LEVER	1		81	XMGV2Z5G	WASHER	2	
7	VML3192	M FRONT GUIDE	2						
8	VML3190	M GUIDE LEFT LEVER	1						
9	VML3196	CASSETTE PROTECT PLATE	1		E18		CARRIGE C.B.A.	1	
10	VMZ2628	CABLE PROTECT SHEET	1						
12	VMB2926	OPENER SPRING	1						
13	VML2A50	BLINDER PANEL OPENER	1						
14	VXA5764	SIDE PLATE R U	1						
15	VML2A51	SUB RAIL (R)	1						
16	VEK7895	SIDE FLEXIBLE	1						
17	VXA5766	MAIN RACK U	1						
18	VDG1156	WIPER RACK	2						
20	VDB1395	MAIN SHAFT ANGLE	2						
21	VDG1155	INTERLOCK GEAR	2						
22	VML3193	OPENER DRIVE ARM	1						
23	VXL2692	OPENER ANGLE U	1						
24	VMB2979	SPRING	1						
25	VXA5944	SIDE PLATE L U	1						
26	VML2A48	SUB RAIL (L)	1						
27	VDG1254	INTERMEDIATE GEAR	1						
28	VDP1643	WIPER ROLLER	2						
29	VDG1237	CLUTCH GEAR	1						
30	VMB2980	CLUTCH SPRING	1						
31	VDG1236	WORM WHEEL	1						
32	VXA5848	MOTOR ANGLE (A) U.	1						
33	VXP1797	E.E SLOT IN WORM U.	1						
34	VXA5597	MOTOR U.	1						
35	VMA9673	EMERGENCY ANGLE	1						
36	VEK7793	MOTOR C.B.A.	1						
37	VMA9668	HOLDER PLATE	1						
38	VEK7715	HOLDER FLEXIBLE U.	1						
39	VXA5945	MAIN RACK (L) U	1						
40	VML2A49	WIPER ARM L	1						
41	VMB2925	WIPER SPRING L	1						
42	VDG1163	WIPER GEAR	2						
43	VMB3013	WIPER SPRING R	1						
44	VML2A52	WIPER ARM R	1						
45	VDP1642	CASSETTE GUIDE ROLLER (2)	2						
46	VDP1641	CASSETTE GUIDE ROLLER (1)	2						
47	VXA5757	CASSETTE HOLDER 1 U	1						
48	VXA5758	KICK OFF ROD L U	1						
49	VXA5759	KICK OFF ROD R U	1						
50	VMB3064	SLIDE SPRING	2						
51	VML3249	SIDE GUIDE L	1						
52	VML3250	SIDE GUIDE R	1						
53	VMB3061	SLIDE GUIDE SPRING L	1						
54	VMB3062	SLIDE GUIDE SPRING R	1						
55	VMS6108	KICK OFF ROD SHAFT	2						
56	VML2A54	KICK OFF ARM L	1						
57	VML2A55	KICK OFF ARM R	1						
58	VMB2928	KICK OFF SPRING	2						
59	VML2A53	CASSETTE HOLDER ARM	2						
60	VMB2927	CASSETTE HOLDER SPRING	2						
61	VMX2525	ML DETECTION ROLLER	2						
62	VMS5882	CASSETTE HOLDER SHAFT	1						
63	VMB3059	ML DETECTION SPRING	2						
64	VMX2559	CASSETTE PRESSURE ROLLER (2)	3						
65	VMX2524	CASSETTE PRESSURE ROLLER (1)	1						
66	VDG1246	EMERGENCY GEAR	1						
67	VMB3109	EMERGENCY SPRING	1						
68	VMZ2661	FRONT GUIDE COVER	1						
71	VMX0853	CUT WASHER	5						
72	VMX0967	CUT WASHER	13						
73	VMX1061	WASHER	4						
74	XQN16+A2	SCREW	8						
75	XQN2+CF3	SCREW	4						

CASSETTE COMPARTMENT ASSEMBLY



ELECTRICAL REPLACEMENT PARTS LIST

AJ-LT75E

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
E1	VEP01776A	DD CONV 1 P.C. BOARD	1	(RTL)
E2	VEP01777A	DD CONV 2 P.C. BOARD	1	(RTL)
E3	VEP03E38A	DIGITAL 1 P.C. BOARD	1	(RTL)
E4	VEP03E39A	DIGITAL 2 P.C. BOARD	1	(RTL)
E5	VEP04640B	ANALOG 1 P.C. BOARD	1	(RTL)
E6	VEP04641B	ANALOG 2 P.C. BOARD	1	(RTL)
E7	VEP05339B	RF AMP P.C. BOARD	1	(RTL)
E8	VEP00X92A	ENCODER VR L P.C. BOARD	1	(RTL)
E9	VEP00X97A	ENCODER VR R P.C. BOARD	1	(RTL)
E10	VEP00Y41A	MOTHER P.C. BOARD	1	(RTL)
E11	VEP00Y42A	CONNECTION BOARD 1 P.C. BOARD	1	(RTL)
E12	VEP00Y43A	CONNECTION BOARD 2 P.C. BOARD	1	(RTL)
E13	VEP00Y44A	CONNECTION BOARD 3 P.C. BOARD	1	(RTL)
E14	VEP00Z07A	CONNECTION BOARD 5 P.C. BOARD	1	(RTL)
E15	VEP00Z08A	CONNECTION BOARD 6 P.C. BOARD	1	(RTL)
E16	VEP00X93A	FRONT JACK P.C. BOARD	1	(RTL)
E17	VEP02545B	SERVO P.C. BOARD	1	(RTL)
E18	VEP80856A	CARRIGE P.C. BOARD	1	(RTL)
E19	VEP06B55B	DISPLAY CONTROL P.C. BOARD	1	(RTL)
E20	VEP00X89A	DISPLAY P.C. BOARD	1	(RTL)
E21	VEP00X90B	LCD CONTROL R P.C. BOARD	1	(RTL)
E22	VEP00X91B	LCD CONTROL L P.C. BOARD	1	(RTL)
E23	VEP00Y21A	TOP SW P.C. BOARD	1	(RTL)
E24	VEP00Y22A	TOP LED P.C. BOARD	1	(RTL)
E25	VEP06B54B	KEY BOARD P.C. BOARD	1	(RTL)
E26	VEP06B53B	AV SYSCON P.C. BOARD	1	(RTL)
E27	VEP04642C	REAR JACK P.C. BOARD	1	(RTL) INCLUDING E28
E28	VEP00Y20B	MIC AMP P.C. BOARD	1	(RTL) INCLUDED E27
E29	VEP00Y32A	DC IN P.C. BOARD	1	(RTL)
E30	VEP00X94A	EJECT SW L P.C. BOARD	1	(RTL)
E31	VEP00Y33A	EJECT SW R P.C. BOARD	1	(RTL)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
E1	VEP01776A	DD CONV 1 P.C. BOARD	1	(RTL)
11	VMZ2803	REEL FLEX COVER	2	
C1002	ECEV1HV2R2Q	E. CAPACITOR CH 50V 2.2U	1	
C1003	ECEV1EV330Q	E. CAPACITOR CH 25V 33U	1	
C1004	ECUM1H561KBN	C. CAPACITOR CH 50V 560P	1	
C1006	ECUM1E334ZFM	C. CAPACITOR CH 25V 0.33U	1	
C1007	ECEV1HV2R2Q	E. CAPACITOR CH 50V 2.2U	1	
C1008	ECUX1H821JCV	C. CAPACITOR CH 50V 820P	1	
C1010	ECUM1H561KBN	C. CAPACITOR CH 50V 560P	1	
C1012	VCEA1AAP101	E. CAPACITOR 10V 100U	1	
C1013	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C1015	VCEA1AAP101	E. CAPACITOR 10V 100U	1	
C1017	VCEA1DAP680	E. CAPACITOR 20V 68U	1	
C1018	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C1021	VCEA1DAP680	E. CAPACITOR 20V 68U	1	
C1022	ECEV1HV3R3Q	E. CAPACITOR CH 50V 3.3U	1	
C1023	ECEV1EV330Q	E. CAPACITOR CH 25V 33U	1	
C1025	ECUM1E473KBN	C. CAPACITOR CH 50V 0.047U	1	
C1026	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C1027	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1	
C1028	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C1029	ECEV1HV3R3Q	E. CAPACITOR CH 50V 3.3U	1	
C1030	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1	
C1032	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C1034	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C1036	VCEA1AAP221	E. CAPACITOR 10V 220U	1	
C1037	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C1038	ECUM1H123KBV	C. CAPACITOR CH 50V 0.012U	1	
C1039	VCEA1AAP680	E. CAPACITOR 10V 68U	1	
C1040	VCEA1DAP680	E. CAPACITOR 20V 68U	1	
C1041	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C1042	VCEA1DAP680	E. CAPACITOR 20V 68U	1	
C1043	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C1044	VCEA1DAP680	E. CAPACITOR 20V 68U	1	
C1045	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C1046-48	VCEA1DAP680	E. CAPACITOR 20V 68U	3	
C1050-53	VCEA1DAP680	E. CAPACITOR 20V 68U	4	
C1055, 56	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	2	
C1058	ECEV1EV330Q	E. CAPACITOR CH 25V 33U	1	
C1060-62	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
D1002	MA8100-M	DIODE	1	
D1004	MA142WK	DIODE	1	
D1005	DESSC4M-4061	DIODE	1	
D1006	MA8100-M	DIODE	1	
D1007	MA8180-M	DIODE	1	
D1009-11	SFP6-76V	DIODE	3	
D1012	SF20SG3L	DIODE	1	
D1013	NSQ03A04	DIODE	1	
D1014-17	MA142K	DIODE	4	
D1019	MA142K	DIODE	1	
D1020	MA8068-M	DIODE	1	
D1021	MA142K	DIODE	1	
D1030	MA142WK	DIODE	1	
IC1001, 02	TL1451CNS	IC	2	
L1001	VLQ0786M4R7	COIL 4.7UH	1	
L1002	VLQ0787	COIL	1	
L1003	ELC12E151	COIL 150UH	1	
L1004	VLQ0805	COIL	1	
L1005	VLQ0855K220	COIL	1	
L1008	ELC15E470	COIL 47UH	1	
L1007	VLQ0805	COIL	1	
L1008	VLQ0441K4R7	COIL 4.7UH	1	
L1008, 10	VLQ0441K220	COIL 22UH	2	
L1013	VLQ0441K220	COIL 22UH	1	
P1001	VJP2824A002	CONNECTOR (MALE)	1	
P1002	VJP1244T	CONNECTOR (MALE) 4P	1	
P1003	VJP3926B016	CONNECTOR (MALE)	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
P1004	VJP3800F018K	CONNECTOR (MALE)	1	
P1005	VJP3440B010	CONNECTOR (MALE)	1	
P1006	VJP1246T	CONNECTOR (MALE) 6P	1	
Q1001	2SD1819A-R	TRANSISTOR	1	
Q1002	2SB1219A-R	TRANSISTOR	1	
Q1003	2SJ283	TRANSISTOR	1	
Q1004	2SD1820A-R	TRANSISTOR	1	
Q1005	2SB1219A-R	TRANSISTOR	1	
Q1006	2SJ279S	TRANSISTOR	1	
Q1007	2SD1819A-R	TRANSISTOR	1	
Q1008	2SB1219A-R	TRANSISTOR	1	
Q1009	2SJ175	TRANSISTOR	1	
Q1010	2SD1819A-R	TRANSISTOR	1	
Q1011	2SD1820A-R	TRANSISTOR	1	
Q1012	2SB1219A-R	TRANSISTOR	1	
Q1013	2SK1748-Z	TRANSISTOR	1	
Q1015-17	XN4401	TRANSISTOR-RESISTOR	3	
Q1018	XN4501	TRANSISTOR-RESISTOR	1	
Q1019-21	2SD1819A-R	TRANSISTOR	3	
Q1023-25	2SB1219A-R	TRANSISTOR	3	
Q1026	2SD1819A-R	TRANSISTOR	1	
Q1031	2SK1748-Z	TRANSISTOR	1	
QR1001	UN5113	TRANSISTOR-RESISTOR	1	
QR1002	UN5213	TRANSISTOR-RESISTOR	1	
QR1003-05	UN5211	TRANSISTOR-RESISTOR	3	
QR1006-08	UN5112	TRANSISTOR-RESISTOR	3	
R1002	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	1	
R1003	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
R1004	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	1	
R1005	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R1006	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	1	
R1007	ERJ6GEYG221	M. RESISTOR CH 1/10W 220	1	
R1008	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R1009	ERJ6GEYJ4R7	M. RESISTOR CH 1/10W 4.7K	1	
R1010	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R1012	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R1015	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R1017, 18	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	2	
R1019, 20	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	2	
R1021	VRE0071E682	M. RESISTOR CH 1/16W 6.8K	1	
R1022	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R1023	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R1024	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R1026	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R1028	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	1	
R1030	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	1	
R1031	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R1032, 33	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	2	
R1034	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	
R1035	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R1037	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R1038	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	1	
R1039	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R1040	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	1	
R1041	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R1042	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
R1043	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R1044	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R1047	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R1048	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R1049	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R1051	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R1052	ERJ3GEYJ432	M. RESISTOR CH 1/16W 4.3K	1	
R1056	ERJ6GEYJ4R7	M. RESISTOR CH 1/10W 4.7K	1	
R1057	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R1058	VRE0202HR15	M. RESISTOR	0.15	
R1061, 62	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R1065	ERJ3GEYJ432	M. RESISTOR CH 1/16W 4.3K	1	
R1069	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	1	
R1071	ERJ3GEYJ383	M. RESISTOR CH 1/16W 38K	1	
R1074, 75	ERJ3GEYJ824	M. RESISTOR CH 1/16W 820K	2	
R1089	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1090	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1		D1206	FMB-24H	DIODE	1	
R1091	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1		D1212	DE5SC3ML4061	DIODE	1	
R1093	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1		D1213	SF20SC3L	DIODE	1	
R1094	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1		D1214	MA8047-M	DIODE	1	
R1095	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1		D1215	MA8068-M	DIODE	1	
R1101	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1		D1216	MA142WK	DIODE	1	
R1103-05	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3		D1218	MA143	DIODE	1	
R1106-08	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3		Δ D1219	ERZM100K470	ZNR	1	
R1109, 10	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2		D1221, 22	MA142K	DIODE	2	
R1113	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1		D1225	MA8056-M	DIODE	1	
R1115	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		D1231	MA142WK	DIODE	1	
R1116	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		IC1201	TL1451CNS	IC	1	
R1117	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		IC1202	NJM2903M	IC	1	
R1119	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		L1201	VLQ0786MAR7	COIL 4.7UH	1	
R1120	ERJ6GEYJ4R7	M. RESISTOR CH 1/10W 4.7K	1		L1202	ELC15E470	COIL 47UH	1	
R1121, 22	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2		L1203, 04	VLQ0805	COIL	2	
R1123	ERJ6GEYJ4R7	M. RESISTOR CH 1/10W 4.7K	1		L1205	VLQ0787	COIL	1	
R1124	VRE0201H27W	M. RESISTOR	1		P1201	VJP3957B002	CONNECTOR (MALE)	1	
R1125	VRE0201H68W	M. RESISTOR	1		P1202	VEEOA08	CONNECTOR	1	
R1126	VRE0201H33W	M. RESISTOR	1		P1203	VJP1244T	CONNECTOR (MALE) 4P	1	
R1128-30	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3		P1204	VJP3926B016	CONNECTOR (MALE)	1	
R1131	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		P1205	VJP3926B010	CONNECTOR (MALE)	1	
R1132	ERJ6GEYJ4R7	M. RESISTOR CH 1/10W 4.7K	1		P1206	VJP3600F016K	CONNECTOR (MALE)	1	
R1133	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		P1207	VJP1246T	CONNECTOR (MALE) 6P	1	
T1001	VL70879	TRANSFORMER	1		Q1201, 02	XN4401	TRANSISTOR-RESISTOR	2	
TG1001	EYF80U	TEST POINT	1		Q1203	2SD1819A-R	TRANSISTOR	1	
TH1001	VRT0143	THERMISTOR	1		Q1204	2SB1219A-R	TRANSISTOR	1	
TP1001-08	EYF80U	TEST POINT	8		Q1205	2SD1819A-R	TRANSISTOR	1	
VR1001, 02	EVM7JGA00B23	V. RESISTOR 2K	2		Q1206	2SB1219A-R	TRANSISTOR	1	
VR1003	EVM7JGA00B13	V. RESISTOR 1K	1		Q1208	2SJ175	TRANSISTOR	1	
VR1004	EVM7JGA00B53	V. RESISTOR 5K	1		Q1209	2SJ293	TRANSISTOR	1	
VR1005	EVM7JGA00B13	V. RESISTOR 1K	1		Q1210	XN4601	TRANSISTOR-RESISTOR	1	
		MISCELLANEOUS			Q1211	XN4501	TRANSISTOR-RESISTOR	1	
Δ	VEK8020				Q1214, 15	2SB1219A-R	TRANSISTOR	2	
	VSC3434	HEAT SINK	2		Q1216	2SD1819A-R	TRANSISTOR	1	
	XYN3+K8	SCREW	2		Q1230-33	2SJ280L	TRANSISTOR	4	
E2	VEP01777A	DD CONV 2 P.C. BOARD	1	(RTL)	QR1201	UN5211	TRANSISTOR-RESISTOR	1	
Δ BK1201	VSQ1024	CIRCUIT PROTECTOR	1		QR1202	UN5113	TRANSISTOR-RESISTOR	1	
Δ BK1202, 03	VSQ1026	CIRCUIT PROTECTOR	2		QR1203	UN5211	TRANSISTOR-RESISTOR	1	
C1201	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1		QR1204	UN5213	TRANSISTOR-RESISTOR	1	
C1204	ECEV1HV2R20	E. CAPACITOR CH 50V 2.2U	1		QR1205	UN5112	TRANSISTOR-RESISTOR	1	
C1205	ECEV1EV330Q	E. CAPACITOR CH 25V 33U	1		QR1206	XN1213	TRANSISTOR-RESISTOR	1	
C1206	ECUM1H561KBN	C. CAPACITOR CH 50V 560P	1		QR1207	UN5113	TRANSISTOR-RESISTOR	1	
C1208	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1		QR1208	UN5112	TRANSISTOR-RESISTOR	1	
C1209	ECEV1HV2R2Q	E. CAPACITOR CH 50V 2.2U	1		R1201	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
C1210	ECUX1H821JCV	C. CAPACITOR CH 50V 820P	1		R1202	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
C1212	ECUM1H561KBN	C. CAPACITOR CH 50V 560P	1		R1203	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
C1214	VCEA1AAP101	E. CAPACITOR 10V 100U	1		R1204, 05	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
C1215	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1		R1206	ERJ3GEYJ824	M. RESISTOR CH 1/16W 820K	1	
C1217	VCEA1AAP101	E. CAPACITOR 10V 100U	1		R1207	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
C1219	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1		R1208	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
C1220	VCEA1AAP101	E. CAPACITOR 10V 100U	1		R1209	ERJ3GEYJ824	M. RESISTOR CH 1/16W 820K	1	
C1222	VCEA1AAP101	E. CAPACITOR 10V 100U	1		R1221, 22	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
C1223, 24	VCEA1DAP680	E. CAPACITOR 20V 68U	2		R1223	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	1	
C1225	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1		R1224	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
C1226	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		R1225	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	1	
C1227	ECEV1EV100Q	E. CAPACITOR CH 25V 10U	1		R1226	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
C1228, 29	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2		R1227	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	1	
C1232, 33	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	2		R1228	ERJ6GEYJ471	M. RESISTOR CH 1/10W 470	1	
D1201	MA142K	DIODE	1		R1230, 31	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	2	
D1204	MA142K	DIODE	1		R1232	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
D1205	MA3200-L	DIODE	1		R1233	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
					R1234	VRE0071E682	M. RESISTOR CH 1/16W 6.8K	1	
					R1235	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	1	
					R1236	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
					R1237	ERJ6GEYJ4R7	M. RESISTOR CH 1/10W 4.7K	1	
					R1238	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
					R1240	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
					R1243	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1244	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R1245	ERJ6GEYJ4R7	M. RESISTOR CH 1/10W 4.7K	1	
R1248	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
R1250	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R1251	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R1252	VRE0071E513	M. RESISTOR CH 1/16W 51K	1	
R1260	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R1261	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R1262	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R1263	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1	
R1264	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R1269	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R1271	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	1	
R1273	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R1274	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R1275	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R1279	VRE0201H39M	M. RESISTOR	1	
R1280	VRE0201H27M	M. RESISTOR	1	
R1281	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R1282	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R1283	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R1284	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R1285	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R1288	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R1289, 90	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R1291	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R1292	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R1293, 94	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R1297	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R1298	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R1299	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R1340	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R1341-44	ERJ6GEYJ4R7	M. RESISTOR CH 1/10W 4.7K	4	
TG1201	EYF6CU	TEST POINT	1	
TH1201	VRT0143	THERMISTOR	1	
TP1201-04	EYF6CU	TEST POINT	4	
TP1206-08	EYF6CU	TEST POINT	3	
VR1201, 02	EVM7JGA00B23	V. RESISTOR	2K	2
VR1204	EVM7JGA00B53	V. RESISTOR	5K	1
		MISCELLANEOUS		
	VSC3434	HEAT SINK	2	
	XYN3-K8	SCREW	2	
E3	VEP03E38A	DIGITAL 1 P.C. BOARD	1	(RTL)
C5001-06	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	8	
C5008, 09	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C5011-15	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5	
C5018, 17	ECUX1H122KBV	C. CAPACITOR CH 50V 1200P	2	
C5018, 19	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C5020	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C5021-29	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	9	
C5101-05	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5	
C5107-09	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C5111-25	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	15	
C5126, 27	ECUX1H122KBV	C. CAPACITOR CH 50V 1200P	2	
C5128	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C5129-37	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	9	
C5202-11	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	10	
C5213-15	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C5217, 18	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C5220	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C5223-30	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	8	
C5231	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C5232, 33	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C5234	ECUX1H821JCV	C. CAPACITOR CH 50V 820P	1	
C5235	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C5237	ECUX1G184KBN	C. CAPACITOR CH 16V 6800P	1	
C5238-40	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C5241	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C5242-50	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	9	
C5251, 52	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	2	
C5253	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C5254	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C5256	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C5258	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C5261	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C5401-03	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C5405-06	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5	
C5411	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C5413-16	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C5418-20	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C5423	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C5425-32	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	8	
C5433	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C5434	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C5435	ECUX1H821JCV	C. CAPACITOR CH 50V 820P	1	
C5436	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C5438	ECUX1G184KBN	C. CAPACITOR CH 16V 6800P	1	
C5439-41	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C5442	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C5443-52	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	10	
C5453, 54	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	2	
C5455	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C5456, 57	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	2	
C5460	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C5463	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C5601-04	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C5605	ECUX1H040CCV	C. CAPACITOR CH 50V 4P	1	
C5606-09	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C5611	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C5613, 14	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C5620, 21	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C5625	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C5627	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C5630	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C5632-34	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C5646-49	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C5701-05	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5	
C5710, 11	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C5801, 02	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C5805	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C5807-11	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5	
C5819	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C5901, 02	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C5904	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C5905	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C5906, 07	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C5909	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C5912	ECEV0JV330Q	E. CAPACITOR CH6.3V 33U	1	
C5913-15	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C6001-04	ECUX1H822KBV	C. CAPACITOR CH 50V 8200P	4	
C6005	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C6020	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C6022	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C6901	ECEV10V220Q	E. CAPACITOR CH 16V 22U	1	
C6902, 03	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C6904	ECEV10V470Q	E. CAPACITOR CH 16V 47U	1	
C6905, 06	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C6907	ECEV10V470Q	E. CAPACITOR CH 16V 47U	1	
C6908	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C6918	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C6919	ECEV10V470Q	E. CAPACITOR CH 16V 47U	1	
C6920	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C6924, 25	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C6926	ECEV0JV470Q	E. CAPACITOR CH6.3V 47U	1	
C6927-29	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C6930	ECEV0JV470Q	E. CAPACITOR CH6.3V 47U	1	
C6931	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C6932	ECEV10V220Q	E. CAPACITOR CH 16V 22U	1	
C6933	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C6934	ECEV10V470Q	E. CAPACITOR CH 16V 47U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
08935, 36	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	2		C33801-10	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	10	
08937	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1		C33813	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
08938	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1		C33902-09	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	8	
08948	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1		C34001	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
08949	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1		C34003-10	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	8	
08950, 51	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	2		C34101-05	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	5	
08952	ECEV1CV220Q	E. CAPACITOR CH 16V 22U	1		C34106	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
08953	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1		C34107-09	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	3	
08954	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1		C34111, 12	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	2	
08962	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1		C34114, 15	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	2	
08963	ECEV1CV220Q	E. CAPACITOR CH 16V 22U	1		C34201, 02	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	2	
08964	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1		C34203-05	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
08971	ECEVOJV220Q	E. CAPACITOR CH6. 3V 22U	1		C34206	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
08972, 73	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	2		C34212, 13	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	2	
08974	ECEVOJV470Q	E. CAPACITOR CH6. 3V 47U	1		C34215	ECUX1H120JCV	C. CAPACITOR CH 50V 12P	1	
08975	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1		C34216	ECEV1HVR33Q	E. CAPACITOR CH 50V 0.33U	1	
08976	ECEVOJV470Q	E. CAPACITOR CH6. 3V 47U	1		C34217	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
08977	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1		C34218	ECEVOJV470Q	E. CAPACITOR CH6. 3V 47U	1	
C33001-06	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	6		C34219	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C33101	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1		C34220	ECUX1H120JCV	C. CAPACITOR CH 50V 12P	1	
C33102	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1		C34301-08	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	8	
C33103	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C34401, 02	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	2	
C33104	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1		C34403	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C33105	ECUM1H331JCN	C. CAPACITOR CH 50V 330P	1		C34404	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C33106	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1		C34405	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C33107, 08	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	2		C34406	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C33109	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1		C34407	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1	
C33110	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1		C34408	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C33111	ECEV1EN3R3Q	E. CAPACITOR CH 25V 3.3U	1		C34409	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1	
C33113	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C34410	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C33115	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1		C34411	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1	
C33116, 17	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	2		C34412	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C33118	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1		C34413	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1	
C33119	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1		C34414, 15	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	2	
C33120	ECEV1EN3R3Q	E. CAPACITOR CH 25V 3.3U	1		C34416	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1	
C33121	ECUM1H102KBN	C. CAPACITOR CH 50V 1000P	1		C34417, 18	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	2	
C33122	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1		C34419	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C33123-25	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	3		C34420	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C33152	ECUM1H151JCN	C. CAPACITOR CH 50V 150P	1		C34421	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C33153	ECUM1H102KBN	C. CAPACITOR CH 50V 1000P	1		C34422	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C33154	ECUM1H470JCN	C. CAPACITOR CH 50V 47P	1		C34423	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C33155-57	ECUM1H101JCN	C. CAPACITOR CH 50V 100P	3		C34424	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C33158-62	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	5		C34425	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C33201-14	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	14		C34426, 27	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	2	
C33216	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1		C34428	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C33301	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1		C34429	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C33302	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1		C34430	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C33303	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1		C34506	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C33304	ECUX1H682KBV	C. CAPACITOR CH 50V 6800P	1		C34507	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C33305	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1		C34508-10	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	3	
C33306, 07	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	2		C34511	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C33308	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		C34512-14	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	3	
C33309	ECEV1HV2R2Q	E. CAPACITOR CH 50V 2.2U	1		C34601	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C33310	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1		C34602-06	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	5	
C33311	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1		C34607-09	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	3	
C33312	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		C34610	ECDF1H820JC4	C. CAPACITOR 50V 82P	1	
C33313	ECEV1HV2R2Q	E. CAPACITOR CH 50V 2.2U	1		C34701-03	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	3	
C33314	ECUX1H682KBV	C. CAPACITOR CH 50V 6800P	1		C34704	ECEV1CN100Q	E. CAPACITOR CH 18V 10U	1	
C33315	ECUX1H070DCV	C. CAPACITOR CH 50V 7P	1		C34705	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	1	
C33316	VCK0151	C. CAPACITOR	1		C34706	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C33317	ECUX1H682KBV	C. CAPACITOR CH 50V 6800P	1		C34707	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1	
C33318	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1		C34708	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C33319-27	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	9		C34709-18	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	10	
C33330-44	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	15		C34801, 02	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C33401-10	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	10		C34803	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1	
C33501	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C34804	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C33502-09	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	8		C34805	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C33511	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1		C34806, 07	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	2	
C33601	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1		C34808	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C33602	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	1		C34809	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C33603	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1		C34810	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C33604	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C34811, 12	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	2	
C33605-08	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	4		C34813	ECEV1HN010Q	E. CAPACITOR CH 50V 1U	1	
C33701-08	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	6		C34814	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C33710-20	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	11		C34815	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	

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C34816, 17	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	2	
C34818	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C34819	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C34823	ECUX1H390JCV	C. CAPACITOR CH 50V 39P	1	
C34824	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C34825	ECEVICV470Q	E. CAPACITOR CH 16V 47U	1	
C34842	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C34843	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C34844	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C34845	ECEVIHNO10Q	E. CAPACITOR CH 50V 1U	1	
C34846	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C34847	ECEVICV470Q	E. CAPACITOR CH 16V 47U	1	
C34848, 49	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C34850	ECEVICV470Q	E. CAPACITOR CH 16V 47U	1	
C34851	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C34852	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C34853	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C34854	ECEVIHNO10Q	E. CAPACITOR CH 50V 1U	1	
C34855	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	1	
C34856	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C34857	ECEVICV470Q	E. CAPACITOR CH 16V 47U	1	
C34859-64	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6	
C34865	ECEVIHVO10Q	E. CAPACITOR CH 50V 1U	1	
C34866-70	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5	
C34901	ECEVICV470Q	E. CAPACITOR CH 16V 47U	1	
C34902	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C34903	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C34904	ECEVICV100Q	E. CAPACITOR CH 16V 10U	1	
C34905	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C34906	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C34907	ECEVIAN2R2	E. CAPACITOR CH 50V 2.2U	1	
C34908	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C34909	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	1	
C34910, 11	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	2	
C34912	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C34913	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C34914	ECEVICV100Q	E. CAPACITOR CH 16V 10U	1	
C34915, 18	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C34918, 19	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C34920	ECEVICV470Q	E. CAPACITOR CH 16V 47U	1	
C34921	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C34922	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C34923	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C34924	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
C34925	ECUX1H390JCV	C. CAPACITOR CH 50V 39P	1	
C34926, 27	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C34928	ECEVICV470Q	E. CAPACITOR CH 16V 47U	1	
C34929	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C34930, 31	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C34932	ECEVIHNO10Q	E. CAPACITOR CH 50V 1U	1	
C34933	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	1	
C34934	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C34935	ECEVICV470Q	E. CAPACITOR CH 16V 47U	1	
C34940	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C34945-49	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5	
C34951, 52	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C35001-04	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C35101-14	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	14	
C35201, 02	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C35203	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C35204	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1	
C35205-19	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	15	
D5001	MA3020	DIODE	1	
D5101	MA3020	DIODE	1	
D5201	MA3038-H	DIODE	1	
D5401	MA3038-H	DIODE	1	
D5901	MA142K	DIODE	1	
D6957-82	MA701A	DIODE	6	
D6983	MA736	DIODE	1	
D33101	MA715	DIODE	1	
D33102, 03	MA152K	DIODE	2	
D33151	MA335-R	DIODE	1	
D34201-04	MA715	DIODE	4	
D34205-07	MA152K	DIODE	3	

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D34401-04	MA736	DIODE	4	
D34405-08	MA701A	DIODE	4	
D34701	MA142K	DIODE	1	
D34801	MA142WK	DIODE	1	
D34804	MA152K	DIODE	1	
D34901	MA142K	DIODE	1	
D34902	MA335-R	DIODE	1	
D34904	MA152K	DIODE	1	
FL6901	VLF1016A470	FILTER	1	
FL6904	VLF1016A470	FILTER	1	
FL6907, 08	VLF1016A470	FILTER	2	
FL33301	VLF1118	FILTER	1	
FL33302	VLF1117	FILTER	1	
FL33303	VLF1116	FILTER	1	
FL34401-04	VLF1016A223	FILTER	4	
FL34805	VLF1016A223	FILTER	1	
FL34806	VLF1016A470	FILTER	1	
FL34901	VLF1016A223	FILTER	1	
IC5001	AN3730FA	IC	1	
IC5101	MS2055FP	IC	1	
IC5102	AN3730FA	IC	1	
IC5201	TC7S32F	IC	1	
IC5202	MC14053BD	IC	1	
IC5203	NJM319V	IC	1	
IC5204	NJM064V	IC	1	
IC5205	TC7SH32F	IC	1	
IC5206	NJM064V	IC	1	
IC5207	AN3740FAP	IC	1	
IC5208	TC7S86F	IC	1	
IC5401	NJM062V	IC	1	
IC5402	TC7W08FU	IC	1	
IC5403	TC7S32F	IC	1	
IC5404	MC14053BD	IC	1	
IC5405, 06	NJM064V	IC	2	
IC5408	AN3740FAP	IC	1	
IC5409	TC7S86F	IC	1	
IC5601	UPC1663G	IC	1	
IC5602	NJM062V	IC	1	
IC5603	AD9057BRS	IC	1	
IC5604	TC4W53FU	IC	1	
IC5701	MB88344PFV	IC	1	
IC5702	NJM064V	IC	1	
IC5801, 02	74F04SJ	IC	2	
IC5803, 04	74F08SJ	IC	2	
IC5805	74F151ASJ	IC	1	
IC5806	74F157ASJ	IC	1	
IC5901	TC6326AF	IC	1	
IC5902	TC7W08FU	IC	1	
IC5903	S80727ANDQ	IC	1	
IC5904	TC7W04FU	IC	1	
IC5905	TC7S32F	IC	1	
IC5906	74F74SJ	IC	1	
IC5907	74F32SJ	IC	1	
IC5908	74F163ASJ	IC	1	
IC6001	TC7W08FU	IC	1	
IC6002	TC7W04FU	IC	1	
IC6003	TC7S02F	IC	1	
IC6901, 02	XC62AP5002P	IC	2	
IC6906	XC62AP5002P	IC	1	
IC6908, 09	XC62AP3002P	IC	2	
IC6910, 11	XC62DN5002P	IC	2	
IC6915	XC62DN5002P	IC	1	
IC33001	UPD65841G025	IC	1	
IC33002	TCVHC257FS	IC	1	
IC33003	TVHCT244FS	IC	1	
IC33004	TC7SH32FU	IC	1	
IC33101	MC74HC125AF	IC	1	
IC33102, 04	NJM082BM	IC	2	
IC33104, 05	TC7S86F	IC	2	
IC33106	TVHCT244FS	IC	1	
IC33107	TC7SH08FU	IC	1	
IC33151	TC7SH00FU	IC	1	
IC33201, 02	TCVHC244FS	IC	2	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC33203	MN67372A2	IC	1		IC34601	UPD65840G024	IC	1	
IC33204	MN4707F	IC	1		IC34602	TCVHC74FS	IC	1	
IC33206	TCVHC244FS	IC	1		IC34603, O	TC7SH04FU	IC	2	
IC33301	M65401FP	IC	1		IC34605	TCVHC74FS	IC	1	
IC33302	MN673711	IC	1		IC34701	UPD65850J203	IC	1	
IC33303	TCVHC244FS	IC	1		IC34702	NJM082BM	IC	1	
IC33304	M52660FP	IC	1		IC34703	MN74HC221S	IC	1	
IC33305	TCVHC257FS	IC	1		IC34704	TCVHC244FS	IC	1	
IC33306, O	TCVHC245FS	IC	2		IC34705	TC7SH08FU	IC	1	
IC33308	TVHCT244FS	IC	1		IC34706	MC74HC04AF	IC	1	
IC33309	T74LCX244FS	IC	1		IC34707	TCVHC244FS	IC	1	
IC33310	TC4W53FU	IC	1		IC34801	AN91A12S	IC	1	
IC33401	L7A1433	IC	1		IC34802	NE521D	IC	1	
IC33402	M881V4260S7	IC	1		IC34803-O	MN74HC221S	IC	3	
IC33403	TC7S66F	IC	1		IC34807	MC74HC04AF	IC	1	
IC33404	TCVHC08FS	IC	1		IC34809	MC74HC125AF	IC	1	
IC33405	TCVHC74FS	IC	1		IC34810, 1	NJM082BM	IC	2	
IC33501	L7A1434	IC	1		IC34813	MB86023PF	IC	1	
IC33502	TC7S04FU	IC	1		IC34814, 1	TC7SH00FU	IC	2	
IC33503	TVHCT244FS	IC	1		IC34901	MC14053BF	IC	1	
IC33504	MC10H124M	IC	1		IC34902	NJM082BM	IC	1	
IC33601	L7A1434	IC	1		IC34903	NJM78L09UA	IC	1	
IC33602	VS12563	IC	1		IC34904	NE521D	IC	1	
IC33702, O	TCVHC244FS	IC	2		IC34911, 1	NJM082BM	IC	2	
IC33704	T160G70-1586	IC	1		IC34913, 1	TC7SH00FU	IC	2	
IC33705, O	TVHCT374FS	IC	2		IC35001-O	74F244SJ	IC	3	
IC33707	TCVHC244FS	IC	1		IC35004	T74LCX244FS	IC	1	
IC33708	TCVHC164FS	IC	1		IC35101, O	74F244SJ	IC	2	
IC33709	TC7SH04FU	IC	1		IC35103	T74LCX244FS	IC	1	
IC33710	TCVHC74FS	IC	1		IC35104	74F244SJ	IC	1	
IC33711, 1	TC7SH32FU	IC	2		IC35105, O	T74LCX244FS	IC	2	
IC33713	TC7SH08FU	IC	1		IC35107	74F163ASJ	IC	1	
IC33714	TC7SH00FU	IC	1		IC35108-1	TC4W53FU	IC	3	
IC33715	TC7SH04FU	IC	1		IC35111	TC7S04FU	IC	1	
IC33716	TCVHC164FS	IC	1		IC35201	CG25123-5106	IC	1	
IC33801-O	UPD42280G3	IC	4		IC35202, O	CY7C19920ZC	IC	2	
IC33805, O	74ALS541SJ	IC	2		IC35204-O	TCVHC244FS	IC	4	
IC33807	TC7SH32FU	IC	1		IC35208, O	TC7SH32FU	IC	2	
IC33902	UPD65843G026	IC	1		IC35210	TC7SH04FU	IC	1	
IC33903	UPD42280G3	IC	1						
IC33904, O	TCVHC257FS	IC	2		L5701	VLQ0163J100	COIL	10UH	1
IC34001	UPD65868D022	IC	1		L5901	VLQ0163J8R2	COIL	8.2UH	1
IC34002	TCVHC244FS	IC	1		L5902	VLQ0163J2R7	COIL	2.7UH	1
IC34003	TCVHC157FS	IC	1		L33101-06	VLQ0319K470	COIL	47UH	6
IC34004	TCVHC245FS	IC	1		L33151	VLQ0163J3R9	COIL	3.9UH	1
IC34005	TC7SH32FU	IC	1		L33152	VLQ0319K470	COIL	47UH	1
IC34006	TC7SH04FU	IC	1		L33301-03	VLQ0319K100	COIL	10UH	3
IC34101	SN74S1051NS	IC	1		L33601	VLQ0319M1R5	COIL	1.5UH	1
IC34102, O	TVHCT541FS	IC	2		L34201	VLQ0319K470	COIL	47UH	1
IC34104	SN74S1051NS	IC	1		L34404	VLP0133	COIL		1
IC34105	HD151015SS	IC	1		L34406, 07	VLP0133	COIL		2
IC34107, O	UPD71055GB	IC	2		L34501	VLQ0576	COIL		1
IC34109	TCVHC244FS	IC	1		L34502	VLQ0319K101	COIL	100UH	1
IC34110	TC7S04F	IC	1		L34503	VLQ0576	COIL		1
IC34112	UPD71055GB	IC	1		L34801	VLQ0319K101	COIL	100UH	1
IC34113	TCVHC08FS	IC	1		L34802	VLQ0319K221	COIL	220UH	1
IC34201	VS12483	IC	1		L34803	VLQ0163J390	COIL	39UH	1
IC34202	TC7S66F	IC	1		L34804	VLQ0319K470	COIL	47UH	1
IC34203	TCVHC08FS	IC	1		L34807-10	VLQ0319K470	COIL	47UH	4
IC34204	TCVHC04FS	IC	1		L34901	VLQ0319K470	COIL	47UH	1
IC34205	TC7S66F	IC	1		L34902	VLQ0163J221	COIL	220UH	1
IC34206	S80727ANDQ	IC	1		L34903-05	VLQ0319K470	COIL	47UH	3
IC34208, O	TC7S66F	IC	2						
IC34210	TC7SH32F	IC	1		P35701, 02	VJP3949A120H	CONNECTOR (MALE)		2
IC34301	TCVHC74FS	IC	1		P35703	VJS3826A020	CONNECTOR (FEMALE)		1
IC34302	TCVHC244FS	IC	1		P35704	VJP3950A003	CONNECTOR (MALE)		1
IC34303-O	TCVHC257FS	IC	3		P35705	VJP3949A120H	CONNECTOR (MALE)		1
IC34306, O	TCVHC244FS	IC	2		P35706	VJP3440B010	CONNECTOR (MALE)		1
IC34308	TVHCT244FS	IC	1						
IC34401	XC82DN5002P	IC	1		Q5001	KN5531	TRANSISTOR-RESISTOR		1
IC34402	XC82AP2302P	IC	1		Q5002	2SC3930-B	TRANSISTOR		1
IC34403, O	XC82AP5002P	IC	2		Q5003	KN5531	TRANSISTOR-RESISTOR		1
IC34405	NJM79L09UA	IC	1		Q5004-07	2SC3930-B	TRANSISTOR		4
IC34502	ADV7122KST50	IC	1		Q5010-12	2SC3930-B	TRANSISTOR		3
IC34503	AD589JR	IC	1		Q5101	KN5531	TRANSISTOR-RESISTOR		1

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q5102	2SC3930-B	TRANSISTOR	1	
Q5103	XN5531	TRANSISTOR-RESISTOR	1	
Q5104-10	2SC3930-B	TRANSISTOR	7	
Q5201	2SC3930-B	TRANSISTOR	1	
Q5203	2SC3930-B	TRANSISTOR	1	
Q5401	2SC3930-B	TRANSISTOR	1	
Q5403	2SC3930-B	TRANSISTOR	1	
Q5801, 02	2SC3930-B	TRANSISTOR	2	
Q5807	2SC3930-B	TRANSISTOR	1	
Q33151	2SC2285-B	TRANSISTOR	1	
Q34201	2SB708A-R	TRANSISTOR	1	
Q34501-03	2SB1218A-R	TRANSISTOR	3	
Q34504	2SK374-R	TRANSISTOR	1	
Q34901	2SB708A-R	TRANSISTOR	1	
Q34902, 03	2SK608-R	TRANSISTOR	2	
QR5101	UN5213	TRANSISTOR-RESISTOR	1	
QR5401, 02	UN5213	TRANSISTOR-RESISTOR	2	
QR34201	UN2214	TRANSISTOR-RESISTOR	1	
R5004	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R5006	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R5007	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R5008-11	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	4	
R5012	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5013, 14	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5015	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R5016	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5018	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5019	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R5020-22	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R5023	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R5025	ERJ3GEYJ121	M. RESISTOR CH 1/16W 120	1	
R5026, 27	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R5028	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5029	ERJ3GEYJ121	M. RESISTOR CH 1/16W 120	1	
R5031	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	1	
R5032	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	
R5033	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5034	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5035	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5038	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5040	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5041	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5042	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5043	ERJ3GEYJ472	M. RESISTOR CH 1/16W 4.7K	1	
R5044	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5045	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5046	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5050	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R5051	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5053	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5054	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5103	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R5106	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R5107	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R5108-11	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	4	
R5112	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R5114, 15	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5116	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5117	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5118	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5119	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5120	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R5121	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5122	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R5124	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5125	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5126	ERJ3GEYJ121	M. RESISTOR CH 1/16W 120	1	
R5127	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5128, 29	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5131	ERJ3GEYJ121	M. RESISTOR CH 1/16W 120	1	
R5132	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	1	
R5133	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R5134	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R5135, 36	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5137	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5138	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5139	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5141	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5142	ERJ3GEYJ472	M. RESISTOR CH 1/16W 4.7K	1	
R5143	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5144	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5145	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5146	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5147, 48	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5149	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R5150, 51	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R5152	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5206	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5208	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5210	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5211	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5212	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R5214	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5215	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5216	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5217	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5218	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5220	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5222, 23	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5225	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5226	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5227	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5228	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5229	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5230	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5231, 32	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R5233	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5235	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5239	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5242	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5244	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R5245	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5246	ERJ3GEYJ472	M. RESISTOR CH 1/16W 4.7K	1	
R5247	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5248	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5249	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R5250	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5252	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	1	
R5253	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	1	
R5255	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R5256	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R5257	ERJ3GEYJ582	M. RESISTOR CH 1/16W 5.8K	1	
R5259	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1	
R5267	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5271	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5272	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5273	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5277	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5281	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5283	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5284	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5288, 89	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R5290, 91	ERJ3GEYJ682	M. RESISTOR CH 1/16W 8.2K	2	
R5401, 02	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5410, 11	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R5413	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5414	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5415	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R5416	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5419	ERJ3GEYJ682	M. RESISTOR CH 1/16W 6.8K	1	
R5420	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R5421	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5422	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5425	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5426	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R5429	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5430, 31	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R5432	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R5433	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5434	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5435	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5436	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5437	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5438, 39	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R5440	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5442	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5446	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5449	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5451	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R5452	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5453	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R5454	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5455	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5456	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R5457	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5458	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	1	
R5459	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	1	
R5461	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R5462	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R5463	ERJ3GEYJ582	M. RESISTOR CH 1/16W 5.8K	1	
R5465	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1	
R5474	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5476	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5478	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5480	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5483	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5488	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R5490	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5491	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5495	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5497, 98	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	2	
R5499	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5601	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R5602	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5603	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R5604, 05	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5606	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5607	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R5608, 09	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	2	
R5610	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R5612, 13	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	2	
R5614, 15	ERJ3GEYJ582	M. RESISTOR CH 1/16W 5.8K	2	
R5618	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5620	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5621	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R5623	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R5632	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R5634	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5640	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1	
R5646, 47	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5654	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5656	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5658	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R5659	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5663, 64	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5667	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5671	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5673, 74	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R5675	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5676	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5701-03	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R5704-06	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R5707	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5708	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R5710	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	1	
R5712	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R5714	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1	
R5717	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R5718	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5724	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R5729	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5730	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R5736	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R5739	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5801	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	1	
R5802	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5803	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	1	
R5804	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5807-09	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R5811	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5812, 13	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5851	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5854	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5864	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5867, 68	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R5901-03	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R5905	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5906	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R5907, 08	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R5909	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5910	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R5911	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1	
R5912	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R5914	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R5915-19	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	5	
R5921, 22	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R6001, 02	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R6003, 04	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R33001	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R33006-09	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R33010	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R33013	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R33015	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R33018, 19	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33020	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R33022-27	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	6	
R33028-31	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R33101, 02	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33103	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R33105	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R33106	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
R33107	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R33108	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R33109	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R33110	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R33111	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1	
R33112	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R33113	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R33114, 15	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R33116	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R33117	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R33118	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R33119	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R33151	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R33152	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R33153	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R33154	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R33155	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1	
R33156	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R33157	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R33201, 02	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R33203, 04	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33205	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R33301	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R33302	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R33303	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R33310	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R33311, 12	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R33313	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R33316	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R33317, 18	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	2	
R33320	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R33322	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R33323	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R33324	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	
R33325	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R33340-44	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	5	
R33354	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R33355	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R33356-61	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	6	
R33362-69	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	8	
R33370, 71	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R33373	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R33374-98	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	25	
R33401	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R33402-06	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	5	
R33408	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R33501	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R33502, 03	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33504, 05	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	2	
R33506, 07	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R33508, 09	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	2	
R33510	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R33511-14	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R33602	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R33603	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R33605	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R33607	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R33609	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R33701	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R33702	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R33703-09	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	7	
R33712	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R33715	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R33717	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R33718	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R33750	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R33752	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R33753, 54	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R33755	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R33775-90	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	16	
R33792	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R33793	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R33797	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R33799	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R33803	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R33805	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R33806-11	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R33814	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R33816	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R33817	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R33901	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R33902	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R33903	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R33910	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R33911	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R33912	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R33913-18	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	6	
R33919	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R34001-03	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R34004, 05	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R34006	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R34007, 08	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R34009	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R34010-14	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	5	
R34023-31	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	9	
R34032, 33	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R34101, 02	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R34103-06	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R34107-14	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	8	
R34115	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R34116	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R34117	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R34118-21	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R34122	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R34201-03	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	3	
R34204-06	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R34207	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R34208, 09	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R34210-13	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	4	
R34214	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R34215	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R34216, 17	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R34218-20	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	3	
R34221, 22	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R34223, 24	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R34225, 26	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R34227	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R34228	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R34229	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R34230-32	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	3	
R34234, 35	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R34236	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R34239-41	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	3	
R34242-57	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	16	
R34258	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R34259	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R34260	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R34261	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R34262	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R34264	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R34265	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R34266, 67	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R34270	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1	
R34271	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R34273, 74	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R34275, 76	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R34277-81	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	5	
R34282	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R34283	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R34302	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R34303-10	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	8	
R34311-15	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	5	
R34316-30	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	15	
R34331	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R34332-37	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	6	
R34338	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R34503	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R34504, 05	ERJ3GEYJ201	M. RESISTOR CH 1/16W 200	2	
R34506	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R34507	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R34508	ERJ3GEYJ201	M. RESISTOR CH 1/16W 200	1	
R34509	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1	
R34510	ERJ3GEYJ201	M. RESISTOR CH 1/16W 200	1	
R34511	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1	
R34512	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R34513	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R34514	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R34515	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R34516	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R34518	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R34519	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1	
R34601	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R34602	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R34604	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R34606	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R34608	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R34609	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	1	
R34610	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R34611	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R34612	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R34615	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R34617, 18	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R34621	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R34623	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R34626, 27	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R34630	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R34633	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R34635-38	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R34703	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
R34704	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R34705	ERJ3GEYJ684	M. RESISTOR CH 1/16W 680K	1	
R34706	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
R34707	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R34708	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R34711-14	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R34719	ERJ3GEY6882	M. RESISTOR CH 1/16W 6.8K	1	
R34722	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R34724	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1	R35101-16	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	16
R34725	ERJ3GEYJ104	M. RESISTOR CH 1/16W	100K	1	R35117	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100	1
R34735	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1	R35118-20	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	3
R34736	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100	1	R35125	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100	1
R34737-42	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	6	R35126-28	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	3
R34743, 44	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	2	R35129	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100	1
R34745-54	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	10	R35130, 31	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	2
R34756	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1	R35138	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100	1
R34801	ERJ3GEYJ224	M. RESISTOR CH 1/16W	220K	1	R35139-44	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	6
R34802	ERJ3GEYJ684	M. RESISTOR CH 1/16W	680K	1	R35145-47	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	3
R34803	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1	R35148-50	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	3
R34804, 05	ERJ3GEYG822	M. RESISTOR CH 1/16W	8.2K	2	R35201	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1
R34806	ERJ3GEYJ221	M. RESISTOR CH 1/16W	220	1	R35202	ERJ3GEYJ271	M. RESISTOR CH 1/16W	270	1
R34807-12	ERJ3GEYJ222	M. RESISTOR CH 1/16W	2.2K	6	R35203	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100	1
R34813	ERJ3GEYJ184	M. RESISTOR CH 1/16W	180K	1	R35204-19	ERJ3GEYG332	M. RESISTOR CH 1/16W	3.3K	16
R34814	ERJ3GEYJ883	M. RESISTOR CH 1/16W	68K	1	R35236-43	ERJ3GEYG332	M. RESISTOR CH 1/16W	3.3K	8
R34815	ERJ3GEYJ563	M. RESISTOR CH 1/16W	56K	1					
R34816	ERJ3GEYG822	M. RESISTOR CH 1/16W	8.2K	1	SW5801	VSS0367-04B	SWITCH		1
R34817	ERJ3GEYG882	M. RESISTOR CH 1/16W	6.8K	1					
R34818	ERJ3GEYJ563	M. RESISTOR CH 1/16W	56K	1	TG5001	EYF6CU	TEST POINT		1
R34821	ERJ3GEYJ272	M. RESISTOR CH 1/16W	2.7K	1	TG5101	EYF6CU	TEST POINT		1
R34822, 23	ERJ3GEYJ102	M. RESISTOR CH 1/16W	1K	2	TG5801	EYF6CU	TEST POINT		1
R34824	ERJ3GEYJ122	M. RESISTOR CH 1/16W	1.2K	1	TG33201	EYF6CU	TEST POINT		1
R34825	ERJ3GEYJ473	M. RESISTOR CH 1/16W	47K	1	TG33401	EYF6CU	TEST POINT		1
R34826	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1	TG33601	EYF6CU	TEST POINT		1
R34827	ERJ3GEYJ223	M. RESISTOR CH 1/16W	22K	1	TG34201	EYF6CU	TEST POINT		1
R34828	ERJ3GEYJ104	M. RESISTOR CH 1/16W	100K	1	TG34803	EYF6CU	TEST POINT		1
R34829	ERJ3GEYJ105	M. RESISTOR CH 1/16W	1M	1	TG35708	EYF6CU	TEST POINT		1
R34830	ERJ3GEYJ471	M. RESISTOR CH 1/16W	470	1					
R34831	ERJ3GEYJ473	M. RESISTOR CH 1/16W	47K	1	TP5001	EYF6CU	TEST POINT		1
R34832, 33	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	2	TP5101	EYF6CU	TEST POINT		1
R34834	ERJ3GEYJ223	M. RESISTOR CH 1/16W	22K	1	TP5201	EYF6CU	TEST POINT		1
R34835	ERJ3GEYJ105	M. RESISTOR CH 1/16W	1M	1	TP5203, 04	EYF6CU	TEST POINT		2
R34836	ERJ3GEYJ102	M. RESISTOR CH 1/16W	1K	1	TP5401	EYF6CU	TEST POINT		1
R34840, 41	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	2	TP5403, 04	EYF6CU	TEST POINT		2
R34842	ERJ3GEYJ473	M. RESISTOR CH 1/16W	47K	1	TP5801-04	EYF6CU	TEST POINT		4
R34846	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1	TP5901	EYF6CU	TEST POINT		1
R34901	ERJ3GEYJ222	M. RESISTOR CH 1/16W	2.2K	1	TP6001, 02	EYF6CU	TEST POINT		2
R34902	ERJ3GEYG152	M. RESISTOR CH 1/16W	1.5K	1	TP33001, 0	EYF6CU	TEST POINT		2
R34903	ERJ3GEYJ153	M. RESISTOR CH 1/16W	15K	1	TP33101	EYF6CU	TEST POINT		1
R34904	ERJ3GEYJ273	M. RESISTOR CH 1/16W	27K	1	TP33201-0	EYF6CU	TEST POINT		4
R34905	ERJ3GEYJ223	M. RESISTOR CH 1/16W	22K	1	TP33301	EYF6CU	TEST POINT		1
R34906	ERJ3GEYJ105	M. RESISTOR CH 1/16W	1M	1	TP33401, 0	EYF6CU	TEST POINT		2
R34907	ERJ3GEYJ102	M. RESISTOR CH 1/16W	1K	1	TP33501-0	EYF6CU	TEST POINT		4
R34908	ERJ3GEYJ473	M. RESISTOR CH 1/16W	47K	1	TP33601, 0	EYF6CU	TEST POINT		2
R34909	ERJ3GEYG822	M. RESISTOR CH 1/16W	8.2K	1	TP33901, 0	EYF6CU	TEST POINT		2
R34910	ERJ3GEYJ153	M. RESISTOR CH 1/16W	15K	1	TP34201-0	EYF6CU	TEST POINT		5
R34911, 12	ERJ3GEYJ473	M. RESISTOR CH 1/16W	47K	2	TP34301, 0	EYF6CU	TEST POINT		2
R34913, 14	ERJ3GEYG332	M. RESISTOR CH 1/16W	3.3K	2	TP34701-0	EYF6CU	TEST POINT		3
R34915	ERJ3GEYJ102	M. RESISTOR CH 1/16W	1K	1	TP34801, 0	EYF6CU	TEST POINT		2
R34916	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1	TP34804, 0	EYF6CU	TEST POINT		2
R34919	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1	TP34901-0	EYF6CU	TEST POINT		3
R34920	ERJ3GEYJ123	M. RESISTOR CH 1/16W	12K	1	TP35701-0	EYF6CU	TEST POINT		7
R34922	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1					
R34923	ERJ3GEYJ272	M. RESISTOR CH 1/16W	2.7K	1	VC33151	ECV12W50X53T	TRIMMER		1
R34924	ERJ3GEYJ123	M. RESISTOR CH 1/16W	12K	1	VC34901	VCV0050	TRIMMER		1
R34927	ERJ3GEYG152	M. RESISTOR CH 1/16W	1.5K	1					
R34929	ERJ3GEYJ471	M. RESISTOR CH 1/16W	470	1	VR5210	EVN7JGA00B24	V. RESISTOR	20K	1
R34930	ERJ3GEYJ223	M. RESISTOR CH 1/16W	22K	1	VR5410	EVN7JGA00B24	V. RESISTOR	20K	1
R34931, 32	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	2	VR5601	EVN7JGA00B13	V. RESISTOR	1K	1
R34933	ERJ3GEYJ105	M. RESISTOR CH 1/16W	1M	1	VR5801	EVN7JGA00B52	V. RESISTOR	500	1
R34934	ERJ3GEYJ223	M. RESISTOR CH 1/16W	22K	1	VR33301-0	EVN7JGA00B24	V. RESISTOR	20K	3
R34935	ERJ3GEYJ102	M. RESISTOR CH 1/16W	1K	1	VR34702	EVN7JGA00B53	V. RESISTOR	5K	1
R34937, 38	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	2	VR34801	EVN7JGA00B54	V. RESISTOR	50K	1
R34944	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1	VR34802	EVN7JGA00B14	V. RESISTOR	10K	1
R34945	ERJ3GEYJ392	M. RESISTOR CH 1/16W	3.9K	1	VR34803	EVN7JGA00B53	V. RESISTOR	5K	1
R34946	ERJ3GEYJ684	M. RESISTOR CH 1/16W	680K	1	VR34901	EVN7JGA00B23	V. RESISTOR	2K	1
R34952, 53	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	2	VR34902	EVN7JGA00B53	V. RESISTOR	5K	1
R34955, 56	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	2	VR35701	VRV0161B503	V. RESISTOR	50K	1
R35001-04	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	4					
R35005-07	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100	3	X33101	VSX0789	CRYSTAL OSCILLATOR		1
R35010	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1	X33601	VSX0645	CRYSTAL OSCILLATOR		1
R35017	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1	X34201	VSX0637	CRYSTAL OSCILLATOR		1
R35026	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1	X34801	VSX0270	CRYSTAL OSCILLATOR		1
R35035	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100	1	X34802	VSX0567A	CRYSTAL OSCILLATOR		1

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
X34901	VXS0363	CRYSTAL OSCILLATOR	1	
X34902	VXS0567A	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VJF1312	CONNECTOR HOLDER	1	
	VJF0309	CLAMPER	1	
■ E4	VEPQ3E39A	DIGITAL 2 P.C. BOARD	1 (RTL)	
C2	ECUM1H151JCN	C. CAPACITOR CH 50V 150P	1	
C4	ECUM1H470JCN	C. CAPACITOR CH 50V 47P	1	
C5-C7	ECUM1H101JCN	C. CAPACITOR CH 50V 100P	3	
C8-10	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C128	ECUM1H102KBN	C. CAPACITOR CH 50V 1000P	1	
C5001-06	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	6	
C5008, 09	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C5011-15	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	5	
C5016, 17	ECUX1H122KBV	C. CAPACITOR CH 50V 1200P	2	
C5018, 19	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C5020	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C5021-29	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	9	
C5101-05	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	5	
C5107-08	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C5111-25	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	15	
C5126, 27	ECUX1H122KBV	C. CAPACITOR CH 50V 1200P	2	
C5128	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C5129-37	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	9	
C5202-11	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	10	
C5213-15	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C5217, 18	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C5220	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C5223-30	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	8	
C5231	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C5232, 33	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C5234	ECUX1H821JCV	C. CAPACITOR CH 50V 820P	1	
C5235	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C5237	ECUX1G184KBN	C. CAPACITOR CH 16V 6800P	1	
C5238-40	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C5241	ECUX1H880JCV	C. CAPACITOR CH 50V 88P	1	
C5242-50	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	9	
C5251, 52	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	2	
C5253	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C5254	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C5256	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C5258	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C5261	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C5401-03	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C5405-08	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	5	
C5411	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C5413-16	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C5418-20	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C5423	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C5425-32	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	8	
C5433	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C5434	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C5435	ECUX1H821JCV	C. CAPACITOR CH 50V 820P	1	
C5436	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C5438	ECUX1G184KBN	C. CAPACITOR CH 16V 6800P	1	
C5439-41	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C5442	ECUX1H880JCV	C. CAPACITOR CH 50V 88P	1	
C5443-52	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	10	
C5453, 54	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	2	
C5455	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C5456, 57	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	2	
C5460	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C5463	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C5601-04	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C5605	ECUX1H0400CV	C. CAPACITOR CH 50V 4P	1	
C5606-09	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C5611	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C5613, 14	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C5620, 21	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C5625	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C5627	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C5630	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C5632-34	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C5646-49	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C5701-05	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	5	
C5710, 11	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C5801, 02	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C5805	ECUX1H1000CV	C. CAPACITOR CH 50V 10P	1	
C5807-11	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	5	
C5819	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C5901, 02	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C5904	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C5905	ECUX1H1000CV	C. CAPACITOR CH 50V 10P	1	
C5906, 07	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C5909	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C5912	ECEVJ330Q	E. CAPACITOR CH6.3V 33U	1	
C5913-15	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C6001-04	ECUX1H822KBV	C. CAPACITOR CH 50V 8200P	4	
C6005	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C6020	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C6022	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C6901	ECEVJ220Q	E. CAPACITOR CH 16V 22U	1	
C6902, 03	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C6904	ECEVJ470Q	E. CAPACITOR CH 16V 47U	1	
C6905, 06	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C6907	ECEVJ470Q	E. CAPACITOR CH 16V 47U	1	
C6908	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C6918	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C6919	ECEVJ470Q	E. CAPACITOR CH 16V 47U	1	
C6920	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C6924, 25	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C6926	ECEVJ470Q	E. CAPACITOR CH6.3V 47U	1	
C6927-29	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C6930	ECEVJ470Q	E. CAPACITOR CH6.3V 47U	1	
C6931	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C6932	ECEVJ220Q	E. CAPACITOR CH 16V 22U	1	
C6933	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C6934	ECEVJ470Q	E. CAPACITOR CH 16V 47U	1	
C6935, 36	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C6937	ECEVJ470Q	E. CAPACITOR CH 16V 47U	1	
C6938	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C6946	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C6949	ECEVJ470Q	E. CAPACITOR CH 16V 47U	1	
C6950, 51	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C6952	ECEVJ220Q	E. CAPACITOR CH 16V 22U	1	
C6953	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C6954	ECEVJ470Q	E. CAPACITOR CH 16V 47U	1	
C6962	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C6963	ECEVJ220Q	E. CAPACITOR CH 16V 22U	1	
C6964	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C6971	ECEVJ220Q	E. CAPACITOR CH6.3V 22U	1	
C6972, 73	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C6974	ECEVJ470Q	E. CAPACITOR CH6.3V 47U	1	
C6975	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C6976	ECEVJ470Q	E. CAPACITOR CH6.3V 47U	1	
C6977	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C30001-08	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	8	
C30101	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C30102	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C30103	ECUM1H331JCN	C. CAPACITOR CH 50V 330P	1	
C30104	ECEVJ470Q	E. CAPACITOR CH 16V 47U	1	
C30105, 06	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C30107	ECEVJ470Q	E. CAPACITOR CH 16V 47U	1	
C30108	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C30109	ECEVJ330Q	E. CAPACITOR CH 25V 3.3U	1	
C30111	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C30113	ECEVJ470Q	E. CAPACITOR CH 16V 47U	1	
C30114, 15	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C30116	ECEVJ470Q	E. CAPACITOR CH 16V 47U	1	
C30117	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C30118	ECEVJ330Q	E. CAPACITOR CH 25V 3.3U	1	
C30119	ECUM1H102KBN	C. CAPACITOR CH 50V 1000P	1	
C30120	ECEVJ470Q	E. CAPACITOR CH 16V 47U	1	
C30121	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C30122	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1		G32017	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	1	
C30123-29	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	7		G32018	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C30132-35	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4		G32019	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	1	
C30201-14	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	14		G32020	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C30301-20	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	20		G32021	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	1	
C30401-08	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	8		G32022	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C30502	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		G32023	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	1	
C30505-09	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	5		G32024	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C30511, 12	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2		G32025	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C30515	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		G32027	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C30601	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	1		G32028	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C30602	ECUX1H1000GV	C. CAPACITOR CH 50V 10P	1		G32029, 30	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C30603	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1		G32031	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
G30604	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		G32032	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C30605-08	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4		G32033	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C30701-10	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	10		G32101-03	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C30801	ECUX1H0700GV	C. CAPACITOR CH 50V 7P	1		G32104	ECEV1CN100Q	E. CAPACITOR CH 16V 10U	1	
C30802	ECUX1H682KBV	C. CAPACITOR CH 50V 6800P	1		G32105	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	1	
G30803	VCK0151	C. CAPACITOR	1		G32106	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
G30804	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	1		G32107	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1	
G30805	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		G32108	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
G30806	ECUX1H682KBV	C. CAPACITOR CH 50V 6800P	1		G32109-17	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	9	
G30807, 08	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	2		G32201, 02	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
G30809	ECUX1H682KBV	C. CAPACITOR CH 50V 6800P	1		G32203	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1	
G30810-12	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3		G32204	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
G30813, 14	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	2		G32205	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
G30815, 16	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	2		G32206, 07	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	2	
G30817	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		G32208	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
G30818, 19	ECEV1HV2R2Q	E. CAPACITOR CH 50V 2.2U	2		G32209	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
G30820-36	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	17		G32210	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
G30901-13	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	13		G32211, 12	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
G31001-14	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	14		G32213	ECEV1HN010Q	E. CAPACITOR CH 50V 1U	1	
G31101-11	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	11		G32214	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
G31201, 02	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2		G32215	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
G31204-07	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4		G32216, 17	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	2	
G31301-05	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	5		G32218	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
G31401-03	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3		G32219	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
G31404	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		G32221	ECUX1H390JCV	C. CAPACITOR CH 50V 39P	1	
G31405-13	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	9		G32224	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
G31501, 02	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2		G32225	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
G31503	ECEVOJV470Q	E. CAPACITOR CH6.3V 47U	1		G32242	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
G31504, 05	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2		G32243	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
G31506	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		G32244	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
G31507	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		G32245	ECEV1HN010Q	E. CAPACITOR CH 50V 1U	1	
G31508	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		G32246	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
G31513, 14	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2		G32247	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
G31515	ECEV1HVR33Q	E. CAPACITOR CH 50V 0.33U	1		G32248, 49	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
G31516	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		G32250	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
G31517	ECUX1H120JCV	C. CAPACITOR CH 50V 12P	1		G32251	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
G31518	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1		G32252	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
G31519	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		G32253	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
G31520, 21	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	2		G32254	ECEV1HN010Q	E. CAPACITOR CH 50V 1U	1	
G31522	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		G32255	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	1	
G31601	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		G32256	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
G31602	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		G32257	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
G31701-08	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	8		G32259-64	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	6	
G31801-04	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4		G32266	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
G31906	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		G32267	ECEV1HV010Q	E. CAPACITOR CH 50V 1U	1	
G31907	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1		G32268-72	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	5	
G31908, 09	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2		G32301	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
G31910	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1		G32302	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
G31911-14	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4		G32303	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
G32001, 02	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2		G32304	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
G32003	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		G32305	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
G32004	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		G32306	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
G32005	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		G32307	ECEV1VAN2R2	E. CAPACITOR CH 50V 2.2U	1	
G32006	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		G32308	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
G32007	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	1		G32309	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	1	
G32008, 09	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2		G32310, 11	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	2	
G32010	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	1		G32312	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
G32011, 12	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2		G32313	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
G32013	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		G32314	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
G32014	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		G32315	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
G32015	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		G32318, 19	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
G32016	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		G32320	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C32321	ECUX1E104ZV	C. CAPACITOR OH 25V 0.1U	1	
C32322	ECUX1H270JCV	C. CAPACITOR OH 50V 27P	1	
C32323	ECUX1E104ZV	C. CAPACITOR OH 25V 0.1U	1	
C32324	ECUX1H270JCV	C. CAPACITOR OH 50V 27P	1	
C32325	ECUX1H390JCV	C. CAPACITOR OH 50V 39P	1	
C32326, 27	ECUX1E104ZV	C. CAPACITOR OH 25V 0.1U	2	
C32328	ECEV1CV470Q	E. CAPACITOR OH 16V 47U	1	
C32329	ECUX1H103KBV	C. CAPACITOR OH 50V 0.01U	1	
C32330, 31	ECUX1E104ZV	C. CAPACITOR OH 25V 0.1U	2	
C32332	ECEV1HN010Q	E. CAPACITOR OH 50V 1U	1	
C32333	ECUX1H102JV	C. CAPACITOR OH 50V 1000P	1	
C32334	ECUX1E104ZV	C. CAPACITOR OH 25V 0.1U	1	
C32335	ECEV1CV470Q	E. CAPACITOR OH 16V 47U	1	
C32342-48	ECUX1E104ZV	C. CAPACITOR OH 25V 0.1U	5	
C32347	ERJ3GEY0R00	M. RESISTOR OH 1/16W 0	1	
C32348-50	ECUX1E104ZV	C. CAPACITOR OH 25V 0.1U	3	
C32501, 02	ECUX1E104ZV	C. CAPACITOR OH 25V 0.1U	2	
C32503	ECUX1H330JCV	C. CAPACITOR OH 50V 33P	1	
C32504	ECUX1H150JCV	C. CAPACITOR OH 50V 15P	1	
C32505-15	ECUX1E104ZV	C. CAPACITOR OH 25V 0.1U	11	
C32601	ECUX1H151JCV	C. CAPACITOR OH 50V 150P	1	
C32602-06	ECUX1E104ZV	C. CAPACITOR OH 25V 0.1U	5	
C32607	ECGF1H820J04	C. CAPACITOR 50V 82P	1	
C32707-10	ECUX1E104ZV	C. CAPACITOR OH 25V 0.1U	4	
C32801-17	ECUX1E104ZV	C. CAPACITOR OH 25V 0.1U	17	
C32901	ECUX1H330JCV	C. CAPACITOR OH 50V 33P	1	
C32902	ECUX1H150JCV	C. CAPACITOR OH 50V 15P	1	
C32903-12	ECUX1E104ZV	C. CAPACITOR OH 25V 0.1U	10	
D1	MA335-R	DIODE	1	
D5001	MA3020	DIODE	1	
D5101	MA3020	DIODE	1	
D5201	MA3036-H	DIODE	1	
D5401	MA3036-H	DIODE	1	
D5901	MA142K	DIODE	1	
D6957-62	MA701A	DIODE	6	
D6963	MA738	DIODE	1	
D30101	MA715	DIODE	1	
D30102, 03	MA152K	DIODE	2	
D31501-04	MA715	DIODE	4	
D31505-07	MA152K	DIODE	3	
D32001	MA701A	DIODE	1	
D32002-06	MA738	DIODE	5	
D32007-09	MA701A	DIODE	3	
D32101	MA142K	DIODE	1	
D32201	MA142WK	DIODE	1	
D32204	MA152K	DIODE	1	
D32301	MA142K	DIODE	1	
D32302	MA335-R	DIODE	1	
D32304	MA152K	DIODE	1	
FL6901	VLF1016A470	FILTER	1	
FL6904	VLF1016A470	FILTER	1	
FL6907, 08	VLF1016A470	FILTER	2	
FL30801	VLF1117	FILTER	1	
FL30802	VLF1118	FILTER	1	
FL30803	VLF1116	FILTER	1	
FL32001-0	VLF1016A223	FILTER	4	
FL32205	VLF1016A223	FILTER	1	
FL32206	VLF1016A470	FILTER	1	
FL32303	VLF1016A223	FILTER	1	
IC121	TC7S04F	IC	1	
IC5001	AN3730FA	IC	1	
IC5101	M52055FP	IC	1	
IC5102	AN3730FA	IC	1	
IC5201	TC7S32F	IC	1	
IC5202	MC14053BD	IC	1	
IC5203	NJM619V	IC	1	
IC5204	NJM064V	IC	1	
IC5205	TC7SH32FU	IC	1	
IC5206	NJM064V	IC	1	
IC5207	AN3740FAP	IC	1	
IC5208	TC7S66F	IC	1	
IC5401	NJM062V	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC5402	TC7W08FU	IC	1	
IC5403	TC7S32F	IC	1	
IC5404	MC14053BD	IC	1	
IC5405, 06	NJM064V	IC	2	
IC5408	AN3740FAP	IC	1	
IC5409	TC7S66F	IC	1	
IC5601	UPC1663G	IC	1	
IC5602	NJM062V	IC	1	
IC5603	AD9057BRS	IC	1	
IC5604	TC4W53FU	IC	1	
IC5701	NB88344PFV	IC	1	
IC5702	NJM064V	IC	1	
IC5801, 02	74F04SJ	IC	2	
IC5803, 04	74F08SJ	IC	2	
IC5805	74F151ASJ	IC	1	
IC5806	74F157ASJ	IC	1	
IC5901	TC6326AF	IC	1	
IC5902	TC7W08FU	IC	1	
IC5903	S80727ANDQ	IC	1	
IC5904	TC7W04FU	IC	1	
IC5905	TC7S32F	IC	1	
IC5906	74F74SJ	IC	1	
IC5907	74F32SJ	IC	1	
IC5908	74F163ASJ	IC	1	
IC6001	TC7W08FU	IC	1	
IC6002	TC7W04FU	IC	1	
IC6003	TC7S02F	IC	1	
IC6901, 02	XC62AP5002P	IC	2	
IC6906	XC62AP5002P	IC	1	
IC6908, 09	XC62AP3002P	IC	2	
IC6910, 11	XC62DN5002P	IC	2	
IC6915	XC62DN5002P	IC	1	
IC30001	TCVHC257FS	IC	1	
IC30002	TVHCT244FS	IC	1	
IC30003	UPD65841G025	IC	1	
IC30004	TCVHC244FS	IC	1	
IC30005	TC7SH08FU	IC	1	
IC30006	TC7SH32FU	IC	1	
IC30101	MC74HC125AF	IC	1	
IC30102, 03	74F244SJ	IC	2	
IC30104	NJM082BM	IC	1	
IC30105-0	T74LCX244FS	IC	3	
IC30109, 11	TC7S66F	IC	2	
IC30111	74F244SJ	IC	1	
IC30112	74F163ASJ	IC	1	
IC30113	NJM082BM	IC	1	
IC30114	T74LCX244FS	IC	1	
IC30115	TVHCT244FS	IC	1	
IC30201, 02	TCVHC244FS	IC	2	
IC30204	MN67372A2	IC	1	
IC30205	MN4707F	IC	1	
IC30301	TCVHC244FS	IC	1	
IC30302	T74LCX244FS	IC	1	
IC30303	M65401FP	IC	1	
IC30304	MN673711	IC	1	
IC30305, 06	TCVHC245FS	IC	2	
IC30401	L7A1433	IC	1	
IC30402	NB81V4260S7	IC	1	
IC30403	TC7S66F	IC	1	
IC30501	L7A1434	IC	1	
IC30502	TVHCT244FS	IC	1	
IC30504	TC7S04FU	IC	1	
IC30505	MC10H124M	IC	1	
IC30601	L7A1434	IC	1	
IC30602	VS12564	IC	1	
IC30701	L7A1433	IC	1	
IC30702	NB81V4260S7	IC	1	
IC30703	TCVHC08FS	IC	1	
IC30704	TCVHC74FS	IC	1	
IC30705	TC7S66F	IC	1	
IC30801	MN673711	IC	1	
IC30802	M65401FP	IC	1	
IC30803	M52660FP	IC	1	
IC30804	TCVHC257FS	IC	1	
IC30805	TVHCT244FS	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC30901	MN67372A2	IC	1		IC32602	TCVHC74FS	IC	1	
IC30902	MN4707F	IC	1		IC32702	T74L0X244FS	IC	1	
IC30903	TCVHC244FS	IC	1		IC32703-0	74F244SJ	IC	3	
IC31001, 0	TCVHC244FS	IC	2		IC32801, 0	TC7SH32FU	IC	2	
IC31003	T160G70-1586	IC	1		IC32803, 0	TCVHC244FS	IC	2	
IC31004	TC7SH04FU	IC	1		IC32805	UPD65840G023	IC	1	
IC31005	TCVHC164FS	IC	1		IC32806, 0	HM530281-20	IC	2	
IC31006	TCVHC74FS	IC	1		IC32808	TCVHC257FS	IC	1	
IC31007, 0	TC7SH32FU	IC	2		IC32809, 1	TCVHC244FS	IC	2	
IC31009	TC7SH08FU	IC	1		IC32811	TCVHC74FS	IC	1	
IC31010	TC7SH00FU	IC	1		IC32801	CG25123-5106	IC	1	
IC31011	TC7SH04FU	IC	1		IC32902, 0	CY7C19920ZC	IC	2	
IC31012	TCVHC164FS	IC	1						
IC31101-0	UPD42280G3	IC	4		L1	VLQ0163J3R9	COIL	3.9UH	1
IC31105, 0	74ALS541SJ	IC	2		L2	VLQ0319K470	COIL	47UH	1
IC31107	TC7SH32FU	IC	1		L5701	VLQ0163J100	COIL	10UH	1
IC31201	UPD65843G026	IC	1		L5901	VLQ0163J8R2	COIL	8.2UH	1
IC31202	UPD42280G3	IC	1		L5902	VLQ0163J2R7	COIL	2.7UH	1
IC31301	UPD65868D022	IC	1		L30101-06	VLQ0319K470	COIL	47UH	6
IC31401	SN74S1051NS	IC	1		L30801	VLQ0319M1R5	COIL	1.5UH	1
IC31402, 0	TVHCT541FS	IC	2		L30801-03	VLQ0319K100	COIL	10UH	3
IC31404	SN74S1051NS	IC	1		L31501	VLQ0319K470	COIL	47UH	1
IC31405	HD151015SS	IC	1		L31901	VLQ0576	COIL		1
IC31406	TCVHC138FS	IC	1		L31902	VLQ0319K101	COIL	100UH	1
IC31407, 0	UPD71055GB	IC	2		L31903	VLQ0576	COIL		1
IC31409	TCVHC244FS	IC	1		L32004	VLP0133	COIL		1
IC31411	TCVHC08FS	IC	1		L32006, 07	VLP0133	COIL		2
IC31412	UPD71055GB	IC	1		L32201	VLQ0319K221	COIL	220UH	1
IC31501	VS12483	IC	1		L32202	VLQ0319K101	COIL	100UH	1
IC31502	TC7S66F	IC	1		L32203	VLQ0163J390	COIL	39UH	1
IC31503	TCVHC08FS	IC	1		L32204	VLQ0319K470	COIL	47UH	1
IC31505	TCVHC04FS	IC	1		L32207-10	VLQ0319K470	COIL	47UH	4
IC31506	TCVHC00FS	IC	1		L32301	VLQ0319K470	COIL	47UH	1
IC31507	SB0727ANDQ	IC	1		L32302	VLQ0163J221	COIL	220UH	1
IC31508	TC7S66F	IC	1		L32303-05	VLQ0319K470	COIL	47UH	3
IC31509	TC7SH08FU	IC	1						
IC31601	VS12483	IC	1		P33001, 02	VJP3949A120H	CONNECTOR (MALE)		2
IC31701	TCVHC74FS	IC	1		P33003	VJS3826A020	CONNECTOR (FEMALE)		1
IC31702	TCVHC244FS	IC	1		P33004	VJP3950A003	CONNECTOR (MALE)		1
IC31703-0	TCVHC257FS	IC	3		P33005	VJP3949A120H	CONNECTOR (MALE)		1
IC31706, 0	TCVHC244FS	IC	2		P33006	VJP3926B010	CONNECTOR (MALE)		1
IC31708	TVHCT244FS	IC	1						
IC31802, 0	UPD42280G3	IC	2		Q1	2SC2295-B	TRANSISTOR		1
IC31902	ADV7122KST50	IC	1		Q5001	XN5531	TRANSISTOR-RESISTOR		1
IC31903	AD589JR	IC	1		Q5002	2SC3930-B	TRANSISTOR		1
IC32001	XC62DN5002P	IC	1		Q5003	XN5531	TRANSISTOR-RESISTOR		1
IC32002	XC62AP2302P	IC	1		Q5004-07	2SC3930-B	TRANSISTOR		4
IC32003, 0	XC62AP5002P	IC	2		Q5010-12	2SC3930-B	TRANSISTOR		3
IC32005	NJM79L09UA	IC	1		Q5101	XN5531	TRANSISTOR-RESISTOR		1
IC32101	UPD65850J203	IC	1		Q5102	2SC3930-B	TRANSISTOR		1
IC32102	NJM062BM	IC	1		Q5103	XN5531	TRANSISTOR-RESISTOR		1
IC32103	MN74HC221S	IC	1		Q5104-10	2SC3930-B	TRANSISTOR		7
IC32104	TCVHC244FS	IC	1		Q5201	2SC3930-B	TRANSISTOR		1
IC32105	TC7SH08FU	IC	1		Q5203	2SC3930-B	TRANSISTOR		1
IC32106	MC74HC04AF	IC	1		Q5401	2SC3930-B	TRANSISTOR		1
IC32201	AN91A12S	IC	1		Q5403	2SC3930-B	TRANSISTOR		1
IC32202	NE521D	IC	1		Q5801, 02	2SC3930-B	TRANSISTOR		2
IC32203-0	MN74HC221S	IC	3		Q5607	2SC3930-B	TRANSISTOR		1
IC32207	MC74HC04AF	IC	1		Q31501	2SB709A-R	TRANSISTOR		1
IC32209	MC74HC125AF	IC	1		Q31901-03	2SB1218A-R	TRANSISTOR		3
IC32210, 1	NJM062BM	IC	2		Q31904	2SK374-R	TRANSISTOR		1
IC32213	MB86023PF	IC	1		Q32301	2SB709A-R	TRANSISTOR		1
IC32214, 1	TC7SH00FU	IC	2		Q32302, 03	2SK606-R	TRANSISTOR		2
IC32301	MC14053BF	IC	1						
IC32302	NJM062BM	IC	1		QR5101	UN5213	TRANSISTOR-RESISTOR		1
IC32303	NE521D	IC	1		QR5401, 02	UN5213	TRANSISTOR-RESISTOR		2
IC32305	NJM78L09UA	IC	1		QR31501	UN2214	TRANSISTOR-RESISTOR		1
IC32310	NJM062BM	IC	1						
IC32312	NJM062BM	IC	1		R1	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K		1
IC32313, 1	TC7SH00FU	IC	2		R2	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K		1
IC32501	CG25123-5106	IC	1		R3	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K		1
IC32502, 0	CY7C19920ZC	IC	2		R4	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330		1
IC32504, 0	TCVHC244FS	IC	2		R5	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K		1
IC32506	TC7SH04FU	IC	1		R6	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K		1
IC32601	UPD65840G024	IC	1		R7	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M		1

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R5004	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R5006	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R5007	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R5008-11	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	4	
R5012	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5013, 14	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5015	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R5016	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5018	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5019	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R5020-22	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R5023	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R5025	ERJ3GEYJ121	M. RESISTOR CH 1/16W 120	1	
R5026, 27	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R5028	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5029	ERJ3GEYJ121	M. RESISTOR CH 1/16W 120	1	
R5031	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	1	
R5032	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	
R5033	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5034	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5035	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5038	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5040	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5041	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5042	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5043	ERJ3GEYJ472	M. RESISTOR CH 1/16W 4.7K	1	
R5044	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5045	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5048	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5050	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R5051	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5053	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5054	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5103	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R5106	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R5107	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R5108-11	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	4	
R5112	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R5114, 15	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5116	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5117	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5118	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5119	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5120	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R5121	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5122	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R5124	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5125	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5126	ERJ3GEYJ121	M. RESISTOR CH 1/16W 120	1	
R5127	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5128, 29	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5131	ERJ3GEYJ121	M. RESISTOR CH 1/16W 120	1	
R5132	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	1	
R5133	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R5134	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	
R5135, 36	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5137	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5138	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5139	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5141	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5142	ERJ3GEYJ472	M. RESISTOR CH 1/16W 4.7K	1	
R5143	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5144	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5145	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5146	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5147, 48	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5149	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R5150, 51	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R5152	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5206	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5208	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5210	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5211	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5212	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R5214	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R5215	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5216	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5217	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5218	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5220	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5222, 23	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5225	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5226	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5227	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5228	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5229	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5230	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5231, 32	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R5233	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5235	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5239	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5242	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5244	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R5245	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5246	ERJ3GEYJ472	M. RESISTOR CH 1/16W 4.7K	1	
R5247	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5248	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5249	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R5250	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5252	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	1	
R5253	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	1	
R5255	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R5256	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R5257	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
R5259	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1	
R5267	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5271	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5272	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5273	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5277	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5281	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5283	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5284	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5286, 89	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R5290, 91	ERJ3GEYJ822	M. RESISTOR CH 1/16W 8.2K	2	
R5401, 02	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5410, 11	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R5413	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5414	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5415	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R5416	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5419	ERJ3GEYJ682	M. RESISTOR CH 1/16W 6.8K	1	
R5420	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R5421	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5422	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5425	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5426	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R5429	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5430, 31	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R5432	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5433	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5434	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5435	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5436	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5437	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5438, 39	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R5440	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5442	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5446	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5449	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5451	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R5452	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5453	ERJ3GEYJ472	M. RESISTOR CH 1/16W 4.7K	1	
R5454	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5455	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5456	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R5457	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5458	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	1	
R5459	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	1	
R5461	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	

Ref. No.	Part No.	Part Name & Description	Pos	Remarks	Ref. No.	Part No.	Part Name & Description	Pos	Remarks
R5462	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1		R5914	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R5463	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1		R5915-19	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	5	
R5465	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1		R5921, 22	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R5474	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R6001, 02	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R5476	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R6003, 04	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5478	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R30001-07	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	7	
R5480	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1		R30008	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5483	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1		R30009	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5488	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1		R30010	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R5490	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R30011-15	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	5	
R5491	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R30016	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R5495	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R30018	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5497, 98	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	2		R30019-24	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	6	
R5499	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R30025, 26	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R5601	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1		R30027	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R5602	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R30028	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5603	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1		R30029	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5604, 05	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2		R30030-32	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	3	
R5606	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1		R30033	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5607	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1		R30101, 02	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R5608, 09	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	2		R30103	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R5610	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1		R30105	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5612, 13	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	2		R30106	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
R5614, 15	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	2		R30107	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5618	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R30108	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R5620	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R30109	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R5621	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1		R30110	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R5623	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1		R30111	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1	
R5632	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1		R30112	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5634	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R30113	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R5640	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1		R30114, 15	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R5646, 47	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2		R30116	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R5654	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R30117	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R5656	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R30118	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R5658	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1		R30119	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R5659	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R30120-27	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	8	
R5663, 64	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2		R30128	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R5667	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R30129-32	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	4	
R5671	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R30137	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R5673, 74	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2		R30138	VLPO155	COIL	1	
R5675	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R30139-43	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	5	
R5676	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R30144	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R5701-03	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3		R30146-49	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	4	
R5704-06	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3		R30150	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R5707	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1		R30151-56	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	6	
R5708	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1		R30157	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R5710	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	1		R30158-60	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R5712	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1		R30167	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R5714	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1		R30168-74	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	7	
R5717	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1		R30176-79	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	4	
R5718	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R30180	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R5724	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1		R30181	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5729	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R30201, 02	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R5730	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1		R30203, 04	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R5736	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R30301	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R5739	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R30302-05	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R5801	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	1		R30306, 07	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5802	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R30310	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5803	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	1		R30311	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R5804	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R30312, 13	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R5807-09	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3		R30314, 15	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	2	
R5811	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R30316	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R5812, 13	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2		R30317-19	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	3	
R5851	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R30320	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R5854	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R30321-24	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	4	
R5864	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R30327-30	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R5866, 67	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2		R30401	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R5901-03	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3		R30501, 02	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R5905	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R30503, 04	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	2	
R5906	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1		R30509	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5907, 08	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2		R30510	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R5909	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R30512-15	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R5910	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1		R30516, 17	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	2	
R5911	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1		R30518, 19	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R5912	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1		R30601	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R30602	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R30603	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R30605	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30607	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30701	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R30702-08	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	7	
R30710	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30802	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R30803	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R30806	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R30807	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R30809	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R30810	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R30811	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	
R30817	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R30818	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R30819	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R30820-22	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	3	
R30826-28	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	3	
R30830	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R30831	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R30901	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R31001	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R31002	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31004-06	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	3	
R31010	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R31011	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31028	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31029-44	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	18	
R31047	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31049	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31051-52	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31055	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31103	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31105	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31108-11	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R31114-15	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31117	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R31201	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R31202	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31203	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R31210	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31301	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31302	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R31303	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31304	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R31305-12	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	8	
R31313	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31314	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R31315	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31316-19	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	4	
R31320-22	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R31323-24	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R31325-30	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	6	
R31331	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31332	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31333	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31334	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31335	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31336	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31346	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R31347-48	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R31401	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31402	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R31403-05	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R31406-13	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	8	
R31414	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31415	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31416-17	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R31418-22	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	5	
R31423	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31501-02	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R31503-04	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R31505-06	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R31507-08	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R31509-10	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31511-13	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	3	
R31514-15	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R31516-17	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31518-19	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R31520	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31521-22	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R31523	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31524	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R31525	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R31526	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R31527-28	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31529	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R31530	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R31531-34	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R31535-36	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R31537	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31538	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R31539-42	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R31544-49	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	6	
R31551	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31552-53	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R31555	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31556	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R31557	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R31558-60	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	3	
R31561	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31562-63	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R31564	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31565-66	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31567	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R31568	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31569	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1	
R31570	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R31571	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31572	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R31574-79	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	6	
R31582	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R31584	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31585-86	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31601-02	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31603-06	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	4	
R31607	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R31608	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R31609	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R31610-12	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	3	
R31613-15	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	3	
R31616	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31619-21	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R31622	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R31623	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31625-27	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R31628	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R31629	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31630	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R31631	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31632	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R31633-39	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	7	
R31640-42	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	3	
R31702-03	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R31704-11	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	8	
R31712-13	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R31714-20	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	7	
R31721-22	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R31723-29	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	7	
R31731	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31732	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R31733-36	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	4	
R31737	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31738-39	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	2	
R31740	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31804	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31813-14	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R31815-16	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31903	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R31904	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R32325	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
R31905, 06	ERJ3GEYJ201	M. RESISTOR CH 1/16W 200	2		R32328	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	
R31907	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	1		R32330	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1	
R31908	ERJ3GEYJ201	M. RESISTOR CH 1/16W 200	1		R32331	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R31909	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1		R32332, 33	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R31910	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1		R32334	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R31911	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R32335	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R31912	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1		R32336	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R31913	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R32338	ERJ3GEYJ000	M. RESISTOR CH 1/16W 0	1	
R31914	ERJ3GEYJ201	M. RESISTOR CH 1/16W 200	1		R32339, 40	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R31915	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1		R32341	ERJ3GEYJ000	M. RESISTOR CH 1/16W 0	1	
R31916	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R32342	ERJ3GEYJ684	M. RESISTOR CH 1/16W 680K	1	
R31918	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R32343	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R31919	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1		R32350, 51	ERJ3GEYJ000	M. RESISTOR CH 1/16W 0	2	
R32103	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1		R32501-16	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	16	
R32104	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1		R32517	ERJ3GEYJ000	M. RESISTOR CH 1/16W 0	1	
R32105	ERJ3GEYJ684	M. RESISTOR CH 1/16W 680K	1		R32518	ERJ3GEYJ271	M. RESISTOR CH 1/16W 270	1	
R32106	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1		R32519-21	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R32107	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1		R32601	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R32108	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	1		R32604	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R32109	ERJ3GEYJ682	M. RESISTOR CH 1/16W 6.8K	1		R32606	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R32110	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1		R32608	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R32111-14	ERJ3GEYJ000	M. RESISTOR CH 1/16W 0	4		R32609	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	1	
R32122	ERJ3GEYJ000	M. RESISTOR CH 1/16W 0	1		R32610	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R32124	ERJ3GEYJ000	M. RESISTOR CH 1/16W 0	1		R32611	ERJ3GEYJ000	M. RESISTOR CH 1/16W 0	1	
R32125	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R32612	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R32130-39	ERJ3GEYJ000	M. RESISTOR CH 1/16W 0	10		R32615	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R32141, 42	ERJ3GEYJ000	M. RESISTOR CH 1/16W 0	2		R32617, 18	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R32201	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	1		R32621-24	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R32202	ERJ3GEYJ684	M. RESISTOR CH 1/16W 680K	1		R32625, 26	ERJ3GEYJ000	M. RESISTOR CH 1/16W 0	2	
R32203	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R32627	ERJ3GEYJ472	M. RESISTOR CH 1/16W 4.7K	1	
R32204, 05	ERJ3GEYJ822	M. RESISTOR CH 1/16W 8.2K	2		R32630, 31	ERJ3GEYJ000	M. RESISTOR CH 1/16W 0	2	
R32206	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1		R32704	ERJ3GEYJ000	M. RESISTOR CH 1/16W 0	1	
R32207-12	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	6		R32711	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32213	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	1		R32712	ERJ3GEYJ000	M. RESISTOR CH 1/16W 0	1	
R32214	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1		R32721	ERJ3GEYJ000	M. RESISTOR CH 1/16W 0	1	
R32215	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1		R32730-32	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R32216	ERJ3GEYJ682	M. RESISTOR CH 1/16W 6.8K	1		R32733-36	ERJ3GEYJ000	M. RESISTOR CH 1/16W 0	4	
R32217	ERJ3GEYJ822	M. RESISTOR CH 1/16W 8.2K	1		R32804-06	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R32218	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1		R32808-11	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R32221	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1		R32815	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R32222, 23	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2		R32817	ERJ3GEYJ000	M. RESISTOR CH 1/16W 0	1	
R32224	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1		R32818-35	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	18	
R32225	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		R32836-38	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R32226	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R32839-41	ERJ3GEYJ000	M. RESISTOR CH 1/16W 0	3	
R32227	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1		R32901	ERJ3GEYJ000	M. RESISTOR CH 1/16W 0	1	
R32228	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R32902	ERJ3GEYJ271	M. RESISTOR CH 1/16W 270	1	
R32229	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1		R32903	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32230	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1		R32904-11	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	8	
R32231	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1						
R32232, 33	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2		SW5801	VSS0367-04B	SWITCH	1	
R32234	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1						
R32235	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1		TG5001	EYF6CU	TEST POINT	1	
R32236	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1		TG5101	EYF6CU	TEST POINT	1	
R32241, 42	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2		TG5801	EYF6CU	TEST POINT	1	
R32243	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		TG30201	EYF6CU	TEST POINT	1	
R32247	ERJ3GEYJ000	M. RESISTOR CH 1/16W 0	1		TG30601	EYF6CU	TEST POINT	1	
R32301	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1		TG30701	EYF6CU	TEST POINT	1	
R32302	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1		TG31501	EYF6CU	TEST POINT	1	
R32303	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1		TG32204	EYF6CU	TEST POINT	1	
R32304	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1		TG33008	EYF6CU	TEST POINT	1	
R32305	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1						
R32306	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1		TP5001	EYF6CU	TEST POINT	1	
R32307	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1		TP5101	EYF6CU	TEST POINT	1	
R32308	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		TP5201	EYF6CU	TEST POINT	1	
R32310	ERJ3GEYJ822	M. RESISTOR CH 1/16W 8.2K	1		TP5203, 04	EYF6CU	TEST POINT	2	
R32311, 12	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2		TP5401	EYF6CU	TEST POINT	1	
R32313, 14	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	2		TP5403, 04	EYF6CU	TEST POINT	2	
R32315	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1		TP5801-04	EYF6CU	TEST POINT	4	
R32317	ERJ3GEYJ000	M. RESISTOR CH 1/16W 0	1		TP5901	EYF6CU	TEST POINT	1	
R32319	ERJ3GEYJ000	M. RESISTOR CH 1/16W 0	1		TP6001, 02	EYF6CU	TEST POINT	2	
R32320	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		TP30001, 01	EYF6CU	TEST POINT	2	
R32321	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1		TP30101	EYF6CU	TEST POINT	1	
R32323	ERJ3GEYJ000	M. RESISTOR CH 1/16W 0	1		TP30201-01	EYF6CU	TEST POINT	3	
R32324	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1		TP30301	EYF6CU	TEST POINT	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
TP30401	EYF6CU	TEST POINT	1	
TP30501	EYF6CU	TEST POINT	1	
TP30601, 0	EYF6CU	TEST POINT	2	
TP30701, 0	EYF6CU	TEST POINT	2	
TP30801, 0	EYF6CU	TEST POINT	2	
TP30901	EYF6CU	TEST POINT	1	
TP31501-0	EYF6CU	TEST POINT	5	
TP31601, 0	EYF6CU	TEST POINT	2	
TP31701, 0	EYF6CU	TEST POINT	2	
TP32101-0	EYF6CU	TEST POINT	3	
TP32201-0	EYF6CU	TEST POINT	3	
TP32205	EYF6CU	TEST POINT	1	
TP32301, 0	EYF6CU	TEST POINT	2	
TP33001-0	EYF6CU	TEST POINT	7	
VC1	ECV1Z50X53T	TRIMMER	1	
VC32301	VCV0050	TRIMMER	1	
VR5210	EVW7JGA00B24	V. RESISTOR 20K	1	
VR5410	EVW7JGA00B24	V. RESISTOR 20K	1	
VR5601	EVW7JGA00B13	V. RESISTOR 1K	1	
VR5801	EVW7JGA00B52	V. RESISTOR 500	1	
VR30801-0	EVW7JGA00B24	V. RESISTOR 20K	3	
VR32102	EVW7JGA00B53	V. RESISTOR 5K	1	
VR32201	EVW7JGA00B54	V. RESISTOR 50K	1	
VR32202	EVW7JGA00B14	V. RESISTOR 10K	1	
VR32204	EVW7JGA00B53	V. RESISTOR 5K	1	
VR32301	EVW7JGA00B23	V. RESISTOR 2K	1	
VR32302	EVW7JGA00B53	V. RESISTOR 5K	1	
VR33001	VRV0161B503	V. RESISTOR 50K	1	
X30102	VXS0789	CRYSTAL OSCILLATOR	1	
X30601	VXS0645	CRYSTAL OSCILLATOR	1	
X31501	VXS0637	CRYSTAL OSCILLATOR	1	
X32201	VXS0270	CRYSTAL OSCILLATOR	1	
X32202	VXS0567A	CRYSTAL OSCILLATOR	1	
X32301	VXS0363	CRYSTAL OSCILLATOR	1	
X32302	VXS0567A	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
VJF1312		CONNECTOR HOLDER	3	
VJF0309		CLAMPER	1	
E5	VEP04640B	ANALOG 1 P.C. BOARD	1	(RTL)
C3001	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3003	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3005	ECEV1GN100Q	E. CAPACITOR CH 16V 10U	1	
C3006	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3007	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3008	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
C3010	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3011	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C3013	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3016	ECEVOJV101Q	E. CAPACITOR CH 6.3V 100U	1	
C3017	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3018	ECEVOJV330Q	E. CAPACITOR CH 6.3V 33U	1	
C3019	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3020	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3021	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3024	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3026	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3028, 29	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C3030	ECUX1H120JCV	C. CAPACITOR CH 50V 12P	1	
C3031	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C3032	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3033	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	1	
C3034	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3035	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3036, 37	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3038	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3039	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3040	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C3041	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3042	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C3043	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3044	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3045	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C3048	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C3049	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C3050	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	1	
C3051	ECEV1AN330Q	E. CAPACITOR CH 10V 33U	1	
C3052	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3053	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3054	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3057-59	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C3064	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3066	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3072	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3073, 74	ECST1CX106Z	T. CAPACITOR CH 16V 10U	2	
C3075-77	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
C3078	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
C3080	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C3081	ECUX1H472KBV	C. CAPACITOR CH 50V 4700P	1	
C3082	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3084	ECUM1C474KBN	C. CAPACITOR CH 16V 0.47U	1	
C3085	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C3086	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C3087, 88	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3089	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3091	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3092	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3094	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3095	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3096	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3097	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3098	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3099	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3100	ECUX1H060DCV	C. CAPACITOR CH 50V 6P	1	
C3101	ECUX1H560JCV	C. CAPACITOR CH 50V 56P	1	
C3102	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3103, 04	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3201	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C3203	ECUX1H471JUV	C. CAPACITOR CH 50V 470P	1	
C3208	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3212	ECEVOJV330Q	E. CAPACITOR CH 6.3V 33U	1	
C3214	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3215	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C3216	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3218	ECUX1H560JCV	C. CAPACITOR CH 50V 56P	1	
C3219	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3223	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C3224	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	1	
C3227	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C3234	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C3236	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3237	ECEV1CV220Q	E. CAPACITOR CH 16V 22U	1	
C3238	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3239	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3241	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C3243	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	1	
C3245	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C3247	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3250	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C3251	ECEV1AV330Q	E. CAPACITOR CH 10V 33U	1	
C3255, 56	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C3257	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3258	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3260	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C3261	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3264	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3265	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3267	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3270	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3278	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3279	ECEV1CV220Q	E. CAPACITOR CH 16V 22U	1	
C3280-82	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3283	EGUX1H270JCV	C. CAPACITOR CH 50V 27P	1		C3537	EGUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C3284	EGUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C3538	EGUM1C474KBM	C. CAPACITOR CH 16V 0.47U	1	
C3285	EGUX1H560JCV	C. CAPACITOR CH 50V 56P	1		C3540, 41	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C3286, 87	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	2		C3601	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3288, 89	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C3602	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1	
C3291	EGUM1C105ZFN	C. CAPACITOR CH 16V 1U	1		C3605	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C3292	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		C3606	EGUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3293	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C3607	EGUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C3295	EGUX1H102JCV	C. CAPACITOR CH 50V 1000P	1		C3608	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3402	EGUX1H070DCV	C. CAPACITOR CH 50V 7P	1		C3609	EGUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3405	EGST1CX106Z	T. CAPACITOR CH 16V 10U	1		C3612	EGUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C3406	EGUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C3615	EGUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3408	EGUX1H180JCV	C. CAPACITOR CH 50V 18P	1		C3616	EGUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C3409	EGUX1H820JCV	C. CAPACITOR CH 50V 82P	1		C3701, 02	EGUX1H470JCV	C. CAPACITOR CH 50V 47P	2	
C3410	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C3703	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3412	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C3704	EGUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C3417	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C3705	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1	
C3420	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1		C3706	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3421	EGUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C3707	EGUX1H471JUV	C. CAPACITOR CH 50V 470P	1	
C3423	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C3708	EGUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C3425-27	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3		C3709	EGUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C3429	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C3710, 11	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C3430	EGST1CX106Z	T. CAPACITOR CH 16V 10U	1		C3712	EGUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C3440	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1		C3713	EGUX1H060DCV	C. CAPACITOR CH 50V 6P	1	
C3441	EGUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C3714	ECEV1HN010Q	E. CAPACITOR CH 50V 1U	1	
C3442	EGST1CX106Z	T. CAPACITOR CH 16V 10U	1		C3715	EGUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C3443	EGUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C3716	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1	
C3444	EGUX1G104KBV	C. CAPACITOR CH 16V 0.1U	1		C3717	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3445	EGUX1H222KBV	C. CAPACITOR CH 50V 2200P	1		C3719	EGUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
C3446	EGUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C3720	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3447	EGUX1H222KBV	C. CAPACITOR CH 50V 2200P	1		C3721	EGUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C3448	EGUM1C474KBM	C. CAPACITOR CH 16V 0.47U	1		C3722-26	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5	
C3449	EGST1CX106Z	T. CAPACITOR CH 16V 10U	1		C3727	EGUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C3450	EGUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C3728	ECEV1HN010Q	E. CAPACITOR CH 50V 1U	1	
C3451	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C3729-32	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C3453	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C3734	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3454	EGUX1H180JCV	C. CAPACITOR CH 50V 18P	1		C3735	EGUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C3455	EGUX1H820JCV	C. CAPACITOR CH 50V 82P	1		C3801-06	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6	
C3456	EGUX1H070DCV	C. CAPACITOR CH 50V 7P	1		C3808-15	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	8	
C3458	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C3816	EGUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C3459	EGUX1H390JCV	C. CAPACITOR CH 50V 39P	1		C7002, 03	EGST1CX106Z	T. CAPACITOR CH 16V 10U	2	
C3460	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1		C7004, 05	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C3461	EGUX1H080DCV	C. CAPACITOR CH 50V 8P	1		C7006	EGUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C3462	EGUX1H181JCV	C. CAPACITOR CH 50V 180P	1		C7008	EGUX1H391JCV	C. CAPACITOR CH 50V 390P	1	
C3463, 64	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C7009	EGUX1H020CCV	C. CAPACITOR CH 50V 2P	1	
C3465	ECEV1HN010Q	E. CAPACITOR CH 50V 1U	1		C7010	EGUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C3466	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C7012, 13	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C3468	EGUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C7015-18	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C3469	EGUX1H820JCV	C. CAPACITOR CH 50V 82P	1		C7019	EGUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C3470, 71	EGUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2		C7021	EGUX1H050CCV	C. CAPACITOR CH 50V 5P	1	
C3472	EGUM1C105ZFN	C. CAPACITOR CH 16V 1U	1		C7022	EGUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C3473	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		C7023	EGUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C3476	ECEV1EV470Q	E. CAPACITOR CH 25V 4.7U	1		C7024, 25	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C3477	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C7026	EGST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3501	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C7027	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3502	EGST1CX106Z	T. CAPACITOR CH 16V 10U	1		C7028	EGST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3503	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1		C7030	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3505	EGUX1H101JCV	C. CAPACITOR CH 50V 100P	1		C7032	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3506	EGUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C7033	EGUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C3507	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C7034	EGUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C3508, 09	EGUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2		C7035	EGUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C3510	EGUX1H102JCV	C. CAPACITOR CH 50V 1000P	1		C7036-40	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5	
C3511	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C7041	EGUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C3515	EGUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C7042	EGUX1H391JCV	C. CAPACITOR CH 50V 390P	1	
C3516	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		C7044	EGUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C3517	EGUX1H680JCV	C. CAPACITOR CH 50V 68P	1		C7045	EGUX1H020CCV	C. CAPACITOR CH 50V 2P	1	
C3520	EGUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C7046	EGUM1C474KBM	C. CAPACITOR CH 16V 0.47U	1	
C3521	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1		C7047, 48	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C3522	EGUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C7050	EGUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C3523	EGUX1H221JCV	C. CAPACITOR CH 50V 220P	1		C7051	EGUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C3524	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C7052, 53	EGUX1H220JCV	C. CAPACITOR CH 50V 22P	2	
C3525, 26	EGUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2		C7054	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3527	EGUX1H102JCV	C. CAPACITOR CH 50V 1000P	1		C7055	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C3528	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C7056	EGUM1C474KBM	C. CAPACITOR CH 16V 0.47U	1	
C3535	EGUX1H220JCV	C. CAPACITOR CH 50V 22P	1		C7057	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7058	EGCF1H181JC	C. CAPACITOR 50V 180P	1	
C7201	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7203, 04	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C7205	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C7206-08	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C7209	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
C7210	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C7214	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
C7215	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C7216	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C7217	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7218	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C7219	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
C7220	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C7221	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C7226	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7227	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C7228	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
C7229, 30	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C7231	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
C7232	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7234	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7235	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C7236, 37	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C7238	ECEV0JV330Q	E. CAPACITOR CH6. 3V 33U	1	
C7240	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C7241	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C7242	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7243	ECEV0JV330Q	E. CAPACITOR CH6. 3V 33U	1	
C7244, 45	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C7247	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C7249	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7251	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7252	ECUX1H391JCV	C. CAPACITOR CH 50V 390P	1	
C7253	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C7254	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7255	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C7256	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7257	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C7258	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7259	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C7260, 61	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C7262	ECEV0JV470Q	E. CAPACITOR CH6. 3V 47U	1	
C7265, 66	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C7267-70	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	4	
C7271	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7272, 73	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	2	
C7275, 76	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C7277	ECEV0JV470Q	E. CAPACITOR CH6. 3V 47U	1	
C7278, 79	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C7280	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C7281	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C7282-84	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C7285	ECUX1H271JCV	C. CAPACITOR CH 50V 270P	1	
C7286	ECUX1H120JCV	C. CAPACITOR CH 50V 12P	1	
C7287	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C7288	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7291	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C7292	ECUX1H1000GV	C. CAPACITOR CH 50V 10P	1	
C7293-96	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C7298	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7300	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C7301	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C7302	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7303	ECUX1H1000GV	C. CAPACITOR CH 50V 10P	1	
C7314	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7316	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C7318	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C7319-24	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	6	
C7325	ECUM1C1052FN	C. CAPACITOR CH 16V 1U	1	
C7326	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C7327	ECUX1H390JCV	C. CAPACITOR CH 50V 39P	1	
C7328	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1	
C7329	ECUX1H0500GV	C. CAPACITOR CH 50V 5P	1	
C7330	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7331	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7335	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C7336	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7337, 38	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	2	
C7339	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7344	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1	
C7401	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C7402	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7403	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C7404, 05	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C7406	ECUX1H1000GV	C. CAPACITOR CH 50V 10P	1	
C7408	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7411	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C7413, 14	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C7415	ECUM1C474KBM	C. CAPACITOR CH 16V 0.47U	1	
C7416	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7417	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C7418	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C7419	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C7420	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C7425	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C7426, 27	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C7428	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C7429	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C7430, 31	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C7432	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C7434	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C7435	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7436	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C7437	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C7438-42	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	5	
C7443, 44	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	2	
C7445	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7448	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7449	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7450, 51	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C7455	ECUX1H1000GV	C. CAPACITOR CH 50V 10P	1	
C7456	ECUX1H560JCV	C. CAPACITOR CH 50V 56P	1	
C7601	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C7602	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C7603, 04	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C7605	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
C7606	ECUX1H391JCV	C. CAPACITOR CH 50V 390P	1	
C7607, 08	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C7616	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C7617	ECUX1H880JCV	C. CAPACITOR CH 50V 68P	1	
C7618, 19	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C7620	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
C7621	ECUX1H391JCV	C. CAPACITOR CH 50V 390P	1	
C7629	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7630	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C7631-33	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	3	
C7635	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C7637	ECUM1C474KBM	C. CAPACITOR CH 16V 0.47U	1	
C7639, 40	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C7641	ECUX1H1000GV	C. CAPACITOR CH 50V 10P	1	
C7642	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C7644	ECUM1C474KBM	C. CAPACITOR CH 16V 0.47U	1	
C7646	ECUX1H1000GV	C. CAPACITOR CH 50V 10P	1	
C7647, 48	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C7656, 57	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C7901	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7902	ECEV0JV330Q	E. CAPACITOR CH6. 3V 33U	1	
C7903	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7904	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7905	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C7906, 07	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C7908	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7909, 10	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	2	
C7911	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7912, 13	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	2	
C7914	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7915	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C7919	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C7920	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C7922, 23	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	2		C40220	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7924	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		C40221	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C40002	ECU1H472JB	P. CAPACITOR 50V 4700P	1		C40222-24	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	3	
C40003	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1		C40225	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C40004	ECUX1H182KBV	C. CAPACITOR CH 50V 1800P	1		C40226	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1	
C40005	ECUX1H561JCV	C. CAPACITOR CH 50V 560P	1		C40230	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1	
C40006	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1		C40231	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C40007	ECEV1CN100Q	E. CAPACITOR CH 16V 10U	1		C40232	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1	
C40008	ECEV1CV220Q	E. CAPACITOR CH 16V 22U	1		C40236	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1	
C40009	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1		C40237	ECU1H472JB	P. CAPACITOR 50V 4700P	1	
C40010	ECEVOJV330Q	E. CAPACITOR CH 6.3V 33U	1		C40238	ECEV1CN100Q	E. CAPACITOR CH 16V 10U	1	
C40011	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1		C40239	ECU1H472JB	P. CAPACITOR 50V 4700P	1	
C40012	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		C40240	ECEV1CN100Q	E. CAPACITOR CH 16V 10U	1	
C40013, 14	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	2		C40241	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1	
C40015	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		C40301	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C40016	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1		C40302	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C40017	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		C40303, 04	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C40018	ECEVOJV330Q	E. CAPACITOR CH 6.3V 33U	1		C40305	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C40019	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1		C40306	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C40020	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		C40308	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C40021	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1		C40309	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C40022	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1		C40310	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C40023, 24	ECEV1EV330Q	E. CAPACITOR CH 25V 33U	2		C40312	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C40025	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		C40313, 14	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C40026	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1		C40315	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C40027	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		C40316	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C40028	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1		C40317	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C40029, 30	ECEV1EV330Q	E. CAPACITOR CH 25V 33U	2		C40318	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C40031	ECEVOJV330Q	E. CAPACITOR CH 6.3V 33U	1		C40319	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1	
C40032, 33	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	2		C40320	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C40034	ECEVOJV330Q	E. CAPACITOR CH 6.3V 33U	1		C40322	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C40036	ECU1H472JB	P. CAPACITOR 50V 4700P	1		C40323, 24	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	2	
C40037	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1		C40325	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C40038	ECUX1H182KBV	C. CAPACITOR CH 50V 1800P	1		C40326	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C40039	ECEV1CN100Q	E. CAPACITOR CH 16V 10U	1		C40327	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C40040	ECUX1H561JCV	C. CAPACITOR CH 50V 560P	1		C40328	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C40041	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1		C40330, 31	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C40042	ECEV1CV220Q	E. CAPACITOR CH 16V 22U	1		C40332	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C40046, 47	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	2		C40334	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C40048	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1		C40335	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C40049, 50	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	2		C40336	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C40051	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1		C40338	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C40052, 53	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	2		C40339, 40	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C40054	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1		C40341	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C40055, 56	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	2		C40342, 43	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	2	
C40058	ECEV1EV470Q	E. CAPACITOR CH 25V 4.7U	1		C40344	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C40059	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1		C40345	ECEVOJV330Q	E. CAPACITOR CH 6.3V 33U	1	
C40070	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		C40346	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C40071, 72	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	2		C40347	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C40073	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		C40348	ECEVOJV330Q	E. CAPACITOR CH 6.3V 33U	1	
C40074	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1		C40349, 50	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	2	
C40084-88	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	5		C40351	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C40089	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1		C40352, 53	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	2	
C40090, 91	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	2		C40354	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C40092	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1		C40356	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C40093	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1		C40357	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C40094	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1		C40358	ECEV1CV220Q	E. CAPACITOR CH 16V 22U	1	
C40095	ECEV1CN100Q	E. CAPACITOR CH 16V 10U	1		C40359, 60	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	2	
C40096	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1		C40361, 62	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	2	
C40097	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1		C40364-67	ECEV1CN100Q	E. CAPACITOR CH 16V 10U	4	
C40098	ECEV1CN100Q	E. CAPACITOR CH 16V 10U	1		C40368-71	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	4	
C40099-04	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	6		C40372	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C40106, 07	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	2		C40375-88	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	14	
C40201	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1		C40502	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C40202	ECEV1CN100Q	E. CAPACITOR CH 16V 10U	1		C40503	ECEVOJV330Q	E. CAPACITOR CH 6.3V 33U	1	
C40203	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1		C40504	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1	
C40206	ECEVOJV330Q	E. CAPACITOR CH 6.3V 33U	1		C40505-10	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	6	
C40207, 08	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	2		C40511	ECEVOJV330Q	E. CAPACITOR CH 6.3V 33U	1	
C40209	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		C40512-15	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	4	
C40211	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		C40601	ECST1C0476Z	T. CAPACITOR CH 16V 47U	1	
C40212	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1		C40602	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C40213-16	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	4		C40603	ECUM1H223KBN	C. CAPACITOR CH 50V 0.022U	1	
C40217	ECEVOJV101Q	E. CAPACITOR CH 6.3V 100U	1		C40604	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C40218	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1		C40605	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C40219	ECEV1CN100Q	E. CAPACITOR CH 16V 10U	1		C40606, 07	ECST1682JZ	P. CAPACITOR 6800P	2	

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C40808	EGST1C0476Z	T. CAPACITOR CH 16V 47U	1		C42007	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	1	
C40809	ECUM1G105KBM	C. CAPACITOR CH 16V 1U	1		C42008	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C40810	ECUM1H223KBN	C. CAPACITOR CH 50V 0.022U	1		C42009	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C40811	ECUX1H102JCV	C. CAPACITOR CH 50V 100P	1		C42101, 02	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	2	
C40812	ECEVICV470Q	E. CAPACITOR CH 16V 47U	1		C42103-12	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	10	
C40813, 14	ECHS1682JZ	P. CAPACITOR 6800P	2		C42201-04	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C40815	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1		C42205	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C40816	ECEVOJN100Q	E. CAPACITOR CH6.3V 10U	1		C42206	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C40817	ECUX1H390JCV	C. CAPACITOR CH 50V 39P	1		C42207	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1	
C40818	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1		C42208-16	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	9	
C40819	ECUM1H273KBN	C. CAPACITOR CH 50V 0.027U	1		C42217	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	1	
C40820	ECUX1H822KBV	C. CAPACITOR CH 50V 8200P	1		C42218	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C40821, 22	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2		C42301	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	1	
C40823	ECEVOJN100Q	E. CAPACITOR CH6.3V 10U	1		C42302, 03	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C40824	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1		C42304, 05	ECEV1HVOR1Q	E. CAPACITOR CH 50V 0.1U	2	
C40825	VCC0030	C. CAPACITOR	1		C42306	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	1	
C40826	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1		C42307	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C40828	ECEVICV470Q	E. CAPACITOR CH 16V 47U	1		C42308	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C40829	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		C42309, 10	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C40701-03	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3		C42401-06	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	6	
C40704	ECEVICV100Q	E. CAPACITOR CH 16V 10U	1		C42407	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	1	
C40705	ECUM1G105KBM	C. CAPACITOR CH 16V 1U	1		C42408	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C40706	ECEVICV220Q	E. CAPACITOR CH 16V 22U	1		C42501-04	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C40707	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1						
C40708	ECEVOJV470Q	E. CAPACITOR CH6.3V 47U	1		D3003	MA142WK	DIODE	1	
C40709	ECST1VY684Z	T. CAPACITOR CH 35V 0.68U	1		D3201	MA142WK	DIODE	1	
C40710	ECUM1G105KBM	C. CAPACITOR CH 16V 1U	1		D3405	MA142WK	DIODE	1	
C40711	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		D3701	MA142WK	DIODE	1	
C40712	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1		D3702	MA335-R	DIODE	1	
C40713, 14	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2		D7002	MA142WK	DIODE	1	
C40715, 16	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2		D7201, 02	MA335-R	DIODE	2	
C40717, 18	ECUM1G105KBM	C. CAPACITOR CH 16V 1U	2		D7203, 04	MA152K	DIODE	2	
C40719	ECEVICN100Q	E. CAPACITOR CH 16V 10U	1		D7206	MA142WK	DIODE	1	
C40720, 21	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2		D7901	MA142WK	DIODE	1	
C40722	ECHU1H683JB	P. CAPACITOR 50V 0.068U	1		D40001	MA142WK	DIODE	1	
C40723, 24	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2		D40002	MA142WA	DIODE	1	
C40725	ECUM1G105KBM	C. CAPACITOR CH 16V 1U	1		D40003	MA142WK	DIODE	1	
C40827	ECEVICV470Q	E. CAPACITOR CH 16V 47U	1		D40004	MA142WA	DIODE	1	
C40828, 29	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2		D40301-05	MA147	DIODE	5	
C40830	ECEVICV470Q	E. CAPACITOR CH 16V 47U	1		D40306, 07	MA142WK	DIODE	2	
C40831, 32	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2		D40501-03	MA128	DIODE	3	
C40869	ECEVICV470Q	E. CAPACITOR CH 16V 47U	1		D40504	MA142WK	DIODE	1	
C40870	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		D40505	MA128	DIODE	1	
C40871	ECEVICV100Q	E. CAPACITOR CH 16V 10U	1		D40601, 02	MA142WK	DIODE	2	
C40872	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		D40907-10	MA147	DIODE	4	
C40873	ECEVICV100Q	E. CAPACITOR CH 16V 10U	1						
C40874	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1		FL3001	VLF1015	FILTER	1	
C40875, 76	ECEVICV100Q	E. CAPACITOR CH 16V 10U	2		FL3002	VLF0941C223	FILTER	1	
C40877	ECEVICV470Q	E. CAPACITOR CH 16V 47U	1		FL3004	VLF1179	FILTER	1	
C40878	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		FL3201, 02	VLF1355	FILTER	2	
C40879, 80	ECEVICV100Q	E. CAPACITOR CH 16V 10U	2		FL3402, 03	VLF0941C223	FILTER	2	
C40881	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1		FL3701, 02	VLF0941C223	FILTER	2	
C40882, 83	ECEVICV470Q	E. CAPACITOR CH 16V 47U	2		FL3801	VLF0941C223	FILTER	1	
C40884	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		FL7001	VLF1354	FILTER	1	
C40885	ECEVICV100Q	E. CAPACITOR CH 16V 10U	1		FL7201, 02	VLF1355	FILTER	2	
C40886	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		FL40508, 09	VLF0941C223	FILTER	2	
C40887	ECEVICV100Q	E. CAPACITOR CH 16V 10U	1		FL40601	EIR70F012B	TRANSFORMER	1	
C40888, 89	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2		FL40701	VLF1069	FILTER	1	
C40890	ECEVICV100Q	E. CAPACITOR CH 16V 10U	1		FL42001	VLF0941C223	FILTER	1	
C40891	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1		FL42201	VLF0941C223	FILTER	1	
C40892, 93	ECEVICV100Q	E. CAPACITOR CH 16V 10U	2		FL42401	VLF0941C223	FILTER	1	
C40894	ECEVICV470Q	E. CAPACITOR CH 16V 47U	1						
C40895	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		IC3001	CXD2024AQ	IC	1	
C40896	ECEVICV100Q	E. CAPACITOR CH 16V 10U	1		IC3002	AD817AR	IC	1	
C40897	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		IC3003	XC62DN5002P	IC	1	
C40898	ECEVICV100Q	E. CAPACITOR CH 16V 10U	1		IC3004	TC7W04FU	IC	1	
C40899	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		IC3005	TC4W53FU	IC	1	
C41000	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1		IC3006	XC62AP5002P	IC	1	
C41001	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		IC3008	MC14053BD	IC	1	
C41002, 03	ECEVICV100Q	E. CAPACITOR CH 16V 10U	2		IC3010	TC7W125FU	IC	1	
C41004	ECEVICV470Q	E. CAPACITOR CH 16V 47U	1		IC3012	MC14053BD	IC	1	
C41005	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		IC3015	XC62AP5002P	IC	1	
C41006	ECEVICV100Q	E. CAPACITOR CH 16V 10U	1		IC3016	MC14053BD	IC	1	
C41008-21	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	14		IC3201	UPD65013BC16	IC	1	
C42001-06	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	6		IC3203	SN74LS221NS	IC	1	

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC3205, 06	NJM1496V	IC	2	
IC3209	TC7W04FU	IC	1	
IC3210	NJM319V	IC	1	
IC3212	TC7W04FU	IC	1	
IC3214, 15	NJM2534V	IC	2	
IC3217	AN77L08M	IC	1	
IC3218	MM74HC221AM	IC	1	
IC3401, 02	EL4583CS	IC	2	
IC3405	XC82AP5002P	IC	1	
IC3409	NJM062BV	IC	1	
IC3410	NJM064V	IC	1	
IC3413	MC14053BD	IC	1	
IC3416	TC7S00FU	IC	1	
IC3417	AN91A12S	IC	1	
IC3418	NJM78L09UA	IC	1	
IC3420	TC7S08FU	IC	1	
IC3501, 02	CXD1178Q	IC	2	
IC3505	EL2270CS	IC	1	
IC3506	XC82AP5002P	IC	1	
IC3508	EL4089CS	IC	1	
IC3601	CXD1178Q	IC	1	
IC3701, 02	SN74LS221NS	IC	2	
IC3703	TC7S00FU	IC	1	
IC3704	TC7S14F	IC	1	
IC3705	TCVHC74FS	IC	1	
IC3706	NJM082BV	IC	1	
IC3707	TC4W53FU	IC	1	
IC3708	TCVHC244FS	IC	1	
IC3709	MN53015VZV	IC	1	
IC3710	TC7S00FU	IC	1	
IC3801	T160G7C-1586	IC	1	
IC3802, 03	UPD42280G3	IC	2	
IC3804	TC7W04FU	IC	1	
IC3805	TC7W125FU	IC	1	
IC3806, 07	74F541SJ	IC	2	
IC7002	TC7W04FU	IC	1	
IC7003	NJM2534V	IC	1	
IC7004	XC82AP5002P	IC	1	
IC7005	XC82DN5002P	IC	1	
IC7006	TA75W01FU	IC	1	
IC7007, 08	EL4089CS	IC	2	
IC7009	TC7S08FU	IC	1	
IC7201	EL2270CS	IC	1	
IC7203	M51272FP	IC	1	
IC7204	EL2170CS	IC	1	
IC7205	MM74HC221AM	IC	1	
IC7207	TA75W558FU	IC	1	
IC7208	MC14053BD	IC	1	
IC7209	XC82AP5002P	IC	1	
IC7210	BA7655AF	IC	1	
IC7211	TA75W01FU	IC	1	
IC7212	TC7S32FU	IC	1	
IC7213	TC7S08FU	IC	1	
IC7401	MC14053BD	IC	1	
IC7402	AD828AR	IC	1	
IC7403	EL4089CS	IC	1	
IC7404-06	NJM2534V	IC	3	
IC7407	TC7S00FU	IC	1	
IC7409	MC14053BD	IC	1	
IC7410	UPD6456T611Y	IC	1	
IC7411	TC4W53FU	IC	1	
IC7412	TC7SH04FU	IC	1	
IC7601	MB88344PFV	IC	1	
IC7602	XC82AP5002P	IC	1	
IC7603, 04	EL4089CS	IC	2	
IC7901	CXA1229M	IC	1	
IC7902	XC82AP5002P	IC	1	
IC7903	EL2270CS	IC	1	
IC7904	TC7W125FU	IC	1	
IC40001	UPC5204GC041	IC	1	
IC40002	XC82AP5002M	IC	1	
IC40004	NJM78L09UA	IC	1	
IC40005	NJM79L09UA	IC	1	
IC40006	NJM78L09UA	IC	1	
IC40009	MC14053BD	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC40010	AK5340VS	IC	1	
IC40011	TCVHC541FS	IC	1	
IC40014	AN79L07M	IC	1	
IC40015	AN78L07M	IC	1	
IC40016, 1	AD7945BR	IC	2	
IC40018-2	TA75W558FU	IC	3	
IC40201	XC82AP5002M	IC	1	
IC40202	AK4320VM	IC	1	
IC40203	TCVHC541FS	IC	1	
IC40204, 0	TA75W558FU	IC	2	
IC40301	TA75W558FU	IC	1	
IC40302	MC14053BD	IC	1	
IC40303	UPD4052BG	IC	1	
IC40304, 0	TA75W558FU	IC	2	
IC40306, 0	AQV212SX	IC	2	
IC40308	XC82AP5002M	IC	1	
IC40309	XC62DN5002M	IC	1	
IC40310	UPD4052BG	IC	1	
IC40311, 1	TA75W558FU	IC	2	
IC40313, 1	AQV212SX	IC	2	
IC40315	TA75W558FU	IC	1	
IC40316, 1	MC14053BD	IC	2	
IC40318, 1	UPD4052BG	IC	2	
IC40320	MC14053BD	IC	1	
IC40321-2	TA75W558FU	IC	4	
IC40502	LVXC3245QSC	IC	1	
IC40504, 0	TVHCT541FS	IC	2	
IC40508	TCVHC139FS	IC	1	
IC40507	UPD71055GB	IC	1	
IC40508	TC7SH04FU	IC	1	
IC40509, 1	UPD71055GB	IC	2	
IC40601	TA75W558FU	IC	1	
IC40701	CXA1102M	IC	1	
IC40702	MC14053BD	IC	1	
IC40703	NJM062V	IC	1	
IC40704, 0	TA75W558FU	IC	2	
IC40906	MC14053BD	IC	1	
IC40907	TA75W558FU	IC	1	
IC40908	MC14053BD	IC	1	
IC40909-1	TA75W558FU	IC	3	
IC40912	NJM78L09UA	IC	1	
IC40913	NJM79L09UA	IC	1	
IC40916, 1	MC14051BF	IC	2	
IC40918, 1	UPD4052BG	IC	2	
IC40921, 2	TA75W558FU	IC	2	
IC40923-2	AQV212SX	IC	4	
IC42001, 0	TCVHC541FS	IC	2	
IC42003	TVHCT541FS	IC	1	
IC42004, 0	TCVHC541FS	IC	2	
IC42006	TC7SH04FU	IC	1	
IC42101	T16GH7AF1216	IC	1	
IC42102, 0	K6256CLG7L	IC	2	
IC42104	AD1893JST	IC	1	
IC42105	TCVHC157FS	IC	1	
IC42201	MN53030VPR	IC	1	
IC42202	TMSD72274PH	IC	1	
IC42203, 0	K6256CLG7L	IC	2	
IC42205, 0	74AC374SJ	IC	2	
IC42207	74AC04SJ	IC	1	
IC42301	XC82AP5002P	IC	1	
IC42302	MC4044M	IC	1	
IC42303	74AC04SJ	IC	1	
IC42304	T74VHC74F	IC	1	
IC42401	TVHCT541FS	IC	1	
IC42402	HD151015SS	IC	1	
IC42403, 0	TVHCT541FS	IC	2	
IC42405	TCVHC138FS	IC	1	
IC42501	TC7W74FU	IC	1	
IC42502	TC7SH04FU	IC	1	
IC42503	TC4W53FU	IC	1	
IC42504	TC7S08FU	IC	1	
L3001, 02	VLQ0319K101	C01L	100UH	2
L3003	VLQ0426J6R8	C01L		1
L3005	VLQ0319K470	C01L	47UH	1

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L3007	VLQ0319K101	C01L 100UH	1		Q3202	2SD1819A-R	TRANSISTOR	1	
L3008	VLQ0426J180	C01L 18UH	1		Q3205	2SD1819A-R	TRANSISTOR	1	
L3009	VLQ0319K101	C01L 100UH	1		Q3206	2SA1532-B	TRANSISTOR	1	
L3010	VLQ0426J220	C01L 22UH	1		Q3207	2SD1819A-R	TRANSISTOR	1	
L3013	VLQ0426J180	C01L 18UH	1		Q3209	2SD1819A-R	TRANSISTOR	1	
L3014	VLQ0426J220	C01L 22UH	1		Q3210	2SA1532-B	TRANSISTOR	1	
L3204	VLQ0319K101	C01L 100UH	1		Q3212	2SC3930-B	TRANSISTOR	1	
L3208, 09	VLQ0319K101	C01L 100UH	2		Q3213, 14	2SD1819A-R	TRANSISTOR	2	
L3212	VLQ0319K101	C01L 100UH	1		Q3215, 16	2SB1218A-R	TRANSISTOR	2	
L3213	VLQ0426J470	C01L 47UH	1		Q3401-03	2SD1819A-R	TRANSISTOR	3	
L3403	VLQ0163J221	C01L 220UH	1		Q3404	2SC3931-C	TRANSISTOR	1	
L3406	VLQ0319K101	C01L 100UH	1		Q3502	2SB1218A-R	TRANSISTOR	1	
L3408, 09	VLQ0319K101	C01L 100UH	2		Q3701	2SC3938-R	TRANSISTOR	1	
L3410	VLQ0163J221	C01L 220UH	1		Q3702, 03	2SA1532-B	TRANSISTOR	2	
L3411	VLQ0133J471	C01L 470UH	1		Q3704	2SC3938-R	TRANSISTOR	1	
L3501, 02	VLQ0319K101	C01L 100UH	2		Q7001	2SD1819A-R	TRANSISTOR	1	
L3602	VLQ0319K101	C01L 100UH	1		Q7002	2SA1532-B	TRANSISTOR	1	
L3701	VLQ0163J3R3	C01L 3.3UH	1		Q7003	2SD1819A-R	TRANSISTOR	1	
L3801-16	VLQ0155	C01L	16		Q7004	2SB1218A-R	TRANSISTOR	1	
L7001, 02	VLQ0319K101	C01L 100UH	2		Q7005, 06	2SA1532-B	TRANSISTOR	2	
L7004	VLQ0426J680	C01L 68UH	1		Q7007	2SD1819A-R	TRANSISTOR	1	
L7005	VLQ0163J151	C01L 150UH	1		Q7008	2SA1532-B	TRANSISTOR	1	
L7008	VLQ0426J680	C01L 68UH	1		Q7009	2SC3930-B	TRANSISTOR	1	
L7010	VLQ0319K101	C01L 100UH	1		Q7010	2SD1819A-R	TRANSISTOR	1	
L7202	VLQ0319K101	C01L 100UH	1		Q7011-13	2SB1218A-R	TRANSISTOR	3	
L7203	VLQ0426J5R6	C01L 5.6UH	1		Q7014	2SD1819A-R	TRANSISTOR	1	
L7204	VLQ0426J6R8	C01L 6.8UH	1		Q7015	2SB1218A-R	TRANSISTOR	1	
L7205	VLQ0426J150	C01L 15UH	1		Q7016	2SA1532-B	TRANSISTOR	1	
L7207	VLQ0319K101	C01L 100UH	1		Q7017, 18	2SD1819A-R	TRANSISTOR	2	
L7208	VLQ0319K470	C01L 47UH	1		Q7203	2SD1819A-R	TRANSISTOR	1	
L7209	VLQ0163J181	C01L 180UH	1		Q7204	2SA1532-B	TRANSISTOR	1	
L7210	VLQ0426J560	C01L 56UH	1		Q7205, 06	2SD1819A-R	TRANSISTOR	2	
L7211	VLQ0319K101	C01L 100UH	1		Q7207	2SA1532-B	TRANSISTOR	1	
L7212-14	VLQ0426J470	C01L 47UH	3		Q7208	2SD1819A-R	TRANSISTOR	1	
L7216	VLQ0319K101	C01L 100UH	1		Q7209	2SC3930-B	TRANSISTOR	1	
L7222	VLQ0426J5R6	C01L 5.6UH	1		Q7210	2SD1819A-R	TRANSISTOR	1	
L7401	VLQ0319K470	C01L 47UH	1		Q7211, 12	2SB1218A-R	TRANSISTOR	2	
L7408	VLQ0426J680	C01L 68UH	1		Q7213	2SD1819A-R	TRANSISTOR	1	
L7409	VLQ0426J270	C01L 27UH	1		Q7214	2SB1218A-R	TRANSISTOR	1	
L7410	VLQ0319K470	C01L 47UH	1		Q7215	2SC3930-B	TRANSISTOR	1	
L7602	VLQ0426J6R8	C01L 6.8UH	1		Q7216	2SB1218A-R	TRANSISTOR	1	
L7606	VLQ0426J6R8	C01L 6.8UH	1		Q7217, 18	2SC3930-B	TRANSISTOR	2	
L7609, 10	ERJ6EYOR00	M. RESISTOR CH 1/10W	0 2		Q7219, 20	2SB1218A-R	TRANSISTOR	2	
L40001	VLQ0163J100	C01L 10UH	1		Q7221	2SC3930-B	TRANSISTOR	1	
L40201	VLQ0163J100	C01L 10UH	1		Q7222	2SD1819A-R	TRANSISTOR	1	
L40202, 03	VLQ0319K101	C01L 100UH	2		Q7223	XN6534	TRANSISTOR-RESISTOR	1	
L40601	VLQ0651K391	C01L 390UH	1		Q7224	2SB1218A-R	TRANSISTOR	1	
L40602	VLQ0423J472	C01L 470UH	1		Q7225	2SK198-R	TRANSISTOR	1	
L42201	VLQ0426J1R8	C01L 1.8UH	1		Q7226	2SC3930-B	TRANSISTOR	1	
P7801	VJP3949A120H	CONNECTOR (MALE)	1		Q7227	2SB1218A-R	TRANSISTOR	1	
P7802	VJP3949A080H	CONNECTOR (MALE)	1		Q7228	2SK198-R	TRANSISTOR	1	
P7803-05	VJP3949A120H	CONNECTOR (MALE)	3		Q7229	2SC3930-B	TRANSISTOR	1	
P7806, 07	VJP3927B006	CONNECTOR (MALE)	2		Q7230	2SD1819A-R	TRANSISTOR	1	
P7808	VJS3600F016K	CONNECTOR (FEMALE)	1		Q7401	2SB1218A-R	TRANSISTOR	1	
P7809	VJP3950A009	CONNECTOR (MALE)	1		Q7402	2SD1819A-R	TRANSISTOR	1	
P7811	VJP3125B005	CONNECTOR (MALE) 5P	1		Q7403	2SC3930-B	TRANSISTOR	1	
P7812	VJP3949A120H	CONNECTOR (MALE)	1		Q7404	2SD1819A-R	TRANSISTOR	1	
P7813	VJP1233T	CONNECTOR (MALE) 6P	1		Q7405-07	2SB1218A-R	TRANSISTOR	3	
Q3001	XN4601	TRANSISTOR-RESISTOR	1		Q7408-10	2SA1532-B	TRANSISTOR	3	
Q3002	2SB1114	TRANSISTOR	1		Q7411-13	2SB1218A-R	TRANSISTOR	3	
Q3003	2SC3930-B	TRANSISTOR	1		Q7601, 02	2SA1532-B	TRANSISTOR	2	
Q3004, 05	2SB1114	TRANSISTOR	2		Q7603	2SD1819A-R	TRANSISTOR	1	
Q3006	2SD1280-S	TRANSISTOR	1		Q7605, 06	2SA1532-B	TRANSISTOR	2	
Q3007	2SB1218A-R	TRANSISTOR	1		Q7607	2SD1819A-R	TRANSISTOR	1	
Q3008, 09	2SD1819A-R	TRANSISTOR	2		Q7609, 10	2SB1218A-R	TRANSISTOR	2	
Q3010	2SA1532-B	TRANSISTOR	1		Q7901	2SA1532-B	TRANSISTOR	1	
Q3011	2SD1819A-R	TRANSISTOR	1		Q7902	2SD1819A-R	TRANSISTOR	1	
Q3015	2SD1819A-R	TRANSISTOR	1		Q40001, 02	2SD1979	TRANSISTOR	2	
Q3016	2SB1114	TRANSISTOR	1		Q40201, 02	2SD1979	TRANSISTOR	2	
Q3019	2SD1819A-R	TRANSISTOR	1		Q40301	2SD874A-R	TRANSISTOR	1	
Q3020, 21	2SB1218A-R	TRANSISTOR	2		Q40302	2SD602A-R	TRANSISTOR	1	
Q3023	2SB1218A-R	TRANSISTOR	1		Q40303	2SB766A-R	TRANSISTOR	1	
Q3024	2SD1819A-R	TRANSISTOR	1		Q40305	2SD874A-R	TRANSISTOR	1	
					Q40306	2SB1219A-R	TRANSISTOR	1	
					Q40307	2SB766A-R	TRANSISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q40308	2SB710A-R	TRANSISTOR	1		R3054	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
Q40309	2SD874A-R	TRANSISTOR	1		R3056	VRE0071E473	M. RESISTOR CH 1/16W 47K	1	
Q40310	2SD602A-R	TRANSISTOR	1		R3057	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
Q40311	2SB766A-R	TRANSISTOR	1		R3062	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
Q40313	2SD874A-R	TRANSISTOR	1		R3063	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
Q40314	2SB766A-R	TRANSISTOR	1		R3064	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
Q40315	2SB710A-R	TRANSISTOR	1		R3069	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
Q40316-18	2SB1219A-R	TRANSISTOR	3		R3071	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
Q40319, 20	2SD1979	TRANSISTOR	2		R3072	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
Q40601	2SB779-R	TRANSISTOR	1		R3073	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
Q40602	2SD874-R	TRANSISTOR	1		R3074	VRE0071E562	M. RESISTOR CH 1/16W 5.6K	1	
Q40603	2SD1819A-R	TRANSISTOR	1		R3076	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
Q40604	2SB779-R	TRANSISTOR	1		R3077, 78	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	2	
Q40605	2SD874-R	TRANSISTOR	1		R3080, 81	VRE0071E473	M. RESISTOR CH 1/16W 47K	2	
Q40606	2SD1819A-R	TRANSISTOR	1		R3083	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
Q40607-09	2SD1979	TRANSISTOR	3		R3085	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
Q40610	2SB1220-R	TRANSISTOR	1		R3086	VRE0071E473	M. RESISTOR CH 1/16W 47K	1	
Q40611, 12	2SD1821-R	TRANSISTOR	2		R3090	VRE0071E473	M. RESISTOR CH 1/16W 47K	1	
Q40911	2SD874A-R	TRANSISTOR	1		R3092	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
Q40912	2SB766A-R	TRANSISTOR	1		R3104	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
Q40913	2SB710A-R	TRANSISTOR	1		R3105	VRE0071E183	M. RESISTOR CH 1/16W 18K	1	
Q40914	2SD874A-R	TRANSISTOR	1		R3106	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
Q40915	2SB766A-R	TRANSISTOR	1		R3107	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
Q40916	2SD602A-R	TRANSISTOR	1		R3110	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	1	
Q40917	2SD874A-R	TRANSISTOR	1		R3113	VRE0071E682	M. RESISTOR CH 1/16W 6.8K	1	
Q40918	2SB766A-R	TRANSISTOR	1		R3114	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
Q40919	2SB710A-R	TRANSISTOR	1		R3115	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
Q40920	2SD874A-R	TRANSISTOR	1		R3116	VRE0071E101	M. RESISTOR CH 1/16W 100	1	
Q40921	2SB766A-R	TRANSISTOR	1		R3117	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	
Q40922	2SD602A-R	TRANSISTOR	1		R3118, 19	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	2	
					R3120	VRE0071E123	M. RESISTOR CH 1/16W 12K	1	
QR3001, 02	UN5213	TRANSISTOR-RESISTOR	2		R3121	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1	
QR3004, 05	UN5213	TRANSISTOR-RESISTOR	2		R3122, 23	VRE0071E102	M. RESISTOR CH 1/16W 1K	2	
QR40001	UN5213	TRANSISTOR-RESISTOR	1		R3124	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
QR40002	UN5113	TRANSISTOR-RESISTOR	1		R3126	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
QR40003	UN5213	TRANSISTOR-RESISTOR	1		R3127-29	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	3	
QR40004	UN5113	TRANSISTOR-RESISTOR	1		R3139	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
QR40201	UN5213	TRANSISTOR-RESISTOR	1		R3141	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
QR40202	UN5113	TRANSISTOR-RESISTOR	1		R3142	VRE0071E101	M. RESISTOR CH 1/16W 100	1	
QR40203	UN5213	TRANSISTOR-RESISTOR	1		R3143	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
QR40204	UN5113	TRANSISTOR-RESISTOR	1		R3144	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
QR40205	UN5213	TRANSISTOR-RESISTOR	1		R3150	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
QR40304	UN5213	TRANSISTOR-RESISTOR	1		R3152	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
QR40307	UN5213	TRANSISTOR-RESISTOR	1		R3153	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
QR40501-04	XN1213	TRANSISTOR-RESISTOR	3		R3156	VRE0071E473	M. RESISTOR CH 1/16W 47K	1	
QR40504	UN5213	TRANSISTOR-RESISTOR	1		R3157	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
QR40601, 04	UN5113	TRANSISTOR-RESISTOR	2		R3161	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
QR40603	UN5213	TRANSISTOR-RESISTOR	1		R3162	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
QR40604	UN5113	TRANSISTOR-RESISTOR	1		R3163	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
QR40605	UN5213	TRANSISTOR-RESISTOR	1		R3164, 65	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
QR40701	UN5113	TRANSISTOR-RESISTOR	1		R3166	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
QR40702	UN5213	TRANSISTOR-RESISTOR	1		R3169, 70	VRE0071E221	M. RESISTOR CH 1/16W 220	2	
QR40703	UN5113	TRANSISTOR-RESISTOR	1		R3171	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
QR40704	UN5213	TRANSISTOR-RESISTOR	1		R3172	VRE0071E473	M. RESISTOR CH 1/16W 47K	1	
					R3173	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R3001	VRE0071E102	M. RESISTOR CH 1/16W 1K	1		R3174	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R3002, 03	VRE0071E101	M. RESISTOR CH 1/16W 100	2		R3175	VRE0071E821	M. RESISTOR CH 1/16W 820	1	
R3004	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R3176	VRE0071E471	M. RESISTOR CH 1/16W 470	1	
R3006, 07	VRE0071E102	M. RESISTOR CH 1/16W 1K	2		R3177	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R3010	VRE0071E151	M. RESISTOR CH 1/16W 150	1		R3178	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R3012	VRE0071E101	M. RESISTOR CH 1/16W 100	1		R3182	VRE0034E102	M. RESISTOR CH 1/10W 1K	1	
R3013, 14	VRE0071E102	M. RESISTOR CH 1/16W 1K	2		R3184	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3016	VRE0071E680	M. RESISTOR CH 1/16W 68	1		R3201	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3024	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1		R3202	VRE0071E153	M. RESISTOR CH 1/16W 15K	1	
R3026, 27	VRE0071E221	M. RESISTOR CH 1/16W 220	2		R3211	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3028, 29	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2		R3212	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R3037	ERJ6GEYG201	M. RESISTOR CH 1/10W 200	1		R3224	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3039	VRE0071E102	M. RESISTOR CH 1/16W 1K	1		R3225	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R3042	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R3226	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3045	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1		R3227	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R3046	VRE0071E471	M. RESISTOR CH 1/16W 470	1		R3228	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R3048	VRE0071E102	M. RESISTOR CH 1/16W 1K	1		R3229-31	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	3	
R3049	ERJ6GEYG201	M. RESISTOR CH 1/10W 200	1		R3232	VRE0071E272	M. RESISTOR CH 1/16W 2.7K	1	
R3052	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R3234	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R3053	ERJ3GEYJ750	M. RESISTOR CH 1/16W 75	1		R3235	VRE0071E331	M. RESISTOR CH 1/16W 330	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3236	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R3238	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3239	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R3242	VRE0071E101	M. RESISTOR CH 1/16W 100	1	
R3243	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R3244	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
R3245	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R3246	VRE0071E181	M. RESISTOR CH 1/16W 180	1	
R3247	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R3248	VRE0071E181	M. RESISTOR CH 1/16W 180	1	
R3249	VRE0071E682	M. RESISTOR CH 1/16W 6.8K	1	
R3250	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R3251	VRE0071E101	M. RESISTOR CH 1/16W 100	1	
R3252	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R3253	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R3258	VRE0071E272	M. RESISTOR CH 1/16W 2.7K	1	
R3259	VRE0071E821	M. RESISTOR CH 1/16W 820	1	
R3261	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R3262	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R3267	VRE0071E101	M. RESISTOR CH 1/16W 100	1	
R3268	VRE0071E331	M. RESISTOR CH 1/16W 330	1	
R3269	VRE0071E101	M. RESISTOR CH 1/16W 100	1	
R3270, 71	VRE0071E181	M. RESISTOR CH 1/16W 180	2	
R3272	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R3273	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R3274	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
R3275	VRE0071E682	M. RESISTOR CH 1/16W 6.8K	1	
R3276	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R3279	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R3281	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R3282	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R3283, 84	VRE0071E102	M. RESISTOR CH 1/16W 1K	2	
R3286	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R3289	VRE0071E101	M. RESISTOR CH 1/16W 100	1	
R3290	VRE0071E153	M. RESISTOR CH 1/16W 15K	1	
R3300	VRE0071E821	M. RESISTOR CH 1/16W 820	1	
R3301	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R3305	VRE0071E821	M. RESISTOR CH 1/16W 820	1	
R3306	VRE0071E471	M. RESISTOR CH 1/16W 470	1	
R3307	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
R3308	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R3309	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3310	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R3311	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R3312	VRE0071E101	M. RESISTOR CH 1/16W 100	1	
R3313	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R3315	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R3316	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R3317	VRE0071E101	M. RESISTOR CH 1/16W 100	1	
R3320	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R3322	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R3324	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R3325	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R3330	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3332	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R3333	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3334	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R3337, 38	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R3340, 41	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R3342, 43	VRE0071E101	M. RESISTOR CH 1/16W 100	2	
R3344	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R3345	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3349	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3351, 52	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R3354	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R3355	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3359	VRE0071E821	M. RESISTOR CH 1/16W 820	1	
R3364	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3365, 66	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R3367	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R3401	ERD52TJ222	C. RESISTOR 1/4W 2.2K	1	
R3402	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
R3403	VRE0071E101	M. RESISTOR CH 1/16W 100	1	
R3404	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
R3408	ERJ3GEYJ823	M. RESISTOR CH 1/16W 82K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3410	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R3413	VRE0034E684	M. RESISTOR CH 1/10W 680K	1	
R3415	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
R3416	ERJ3GEYJ823	M. RESISTOR CH 1/16W 82K	1	
R3418	VRE0034E684	M. RESISTOR CH 1/10W 680K	1	
R3429	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R3432	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R3433, 34	VRE0071E103	M. RESISTOR CH 1/16W 10K	2	
R3435	VRE0071E471	M. RESISTOR CH 1/16W 470	1	
R3436, 37	VRE0071E101	M. RESISTOR CH 1/16W 100	2	
R3438	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1	
R3439, 40	VRE0071E103	M. RESISTOR CH 1/16W 10K	2	
R3441	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R3442	VRE0071E272	M. RESISTOR CH 1/16W 2.7K	1	
R3443	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	1	
R3444, 45	VRE0071E103	M. RESISTOR CH 1/16W 10K	2	
R3446	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R3447	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R3448	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R3449	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R3455	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R3458	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R3459	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	1	
R3460	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R3464	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
R3470-72	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	3	
R3473	VRE0071E221	M. RESISTOR CH 1/16W 220	1	
R3474	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	1	
R3475	ERJ3GEYJ684	M. RESISTOR CH 1/16W 680K	1	
R3476-78	VRE0071E103	M. RESISTOR CH 1/16W 10K	3	
R3479	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3480	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R3481	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3485	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3486	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R3488	VRE0071E101	M. RESISTOR CH 1/16W 100	1	
R3489	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R3490	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R3491	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R3501	ERJ3GEYJ750	M. RESISTOR CH 1/16W 75	1	
R3502	VRE0071E153	M. RESISTOR CH 1/16W 15K	1	
R3505	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3507	VRE0071E821	M. RESISTOR CH 1/16W 820	1	
R3508	VRE0071E221	M. RESISTOR CH 1/16W 220	1	
R3511	ERJ3GEYJ750	M. RESISTOR CH 1/16W 75	1	
R3512	VRE0071E123	M. RESISTOR CH 1/16W 12K	1	
R3514	VRE0071E682	M. RESISTOR CH 1/16W 6.8K	1	
R3515	VRE006607103	M. RESISTOR CH 1/10W 10K	1	
R3516	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R3521	VRE0071E682	M. RESISTOR CH 1/16W 6.8K	1	
R3529	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R3530	VRE0071E473	M. RESISTOR CH 1/16W 47K	1	
R3531	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R3540	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R3541	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	1	
R3542	VRE0071E331	M. RESISTOR CH 1/16W 330	1	
R3543	VRE0071E181	M. RESISTOR CH 1/16W 180	1	
R3545	ERJ3GEYJ560	M. RESISTOR CH 1/16W 56	1	
R3546	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3550, 51	VRE0071E102	M. RESISTOR CH 1/16W 1K	2	
R3552	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R3553	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3554	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R3555	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R3601	ERJ3GEYJ750	M. RESISTOR CH 1/16W 75	1	
R3602	VRE0071E123	M. RESISTOR CH 1/16W 12K	1	
R3604	VRE0071E221	M. RESISTOR CH 1/16W 220	1	
R3605	VRE0071E682	M. RESISTOR CH 1/16W 6.8K	1	
R3606	VRE0071E821	M. RESISTOR CH 1/16W 820	1	
R3608	VRE006607103	M. RESISTOR CH 1/10W 10K	1	
R3609	VRE0071E682	M. RESISTOR CH 1/16W 6.8K	1	
R3612	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R3616	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R3624	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R3701	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3702	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1		R7040	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R3703	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1		R7041	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R3704	VRE0071E682	M. RESISTOR CH 1/16W 6.8K	1		R7044	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R3705	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1		R7045	VRE0071E153	M. RESISTOR CH 1/16W 15K	1	
R3706	VRE0071E102	M. RESISTOR CH 1/16W 1K	1		R7046	VRE0071E221	M. RESISTOR CH 1/16W 220	1	
R3707	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1		R7048	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R3708, 09	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	2		R7049	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R3710	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1		R7054	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R3711	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1		R7055	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3712	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1		R7057, 58	VRE0071E102	M. RESISTOR CH 1/16W 1K	2	
R3714	VRE0071E682	M. RESISTOR CH 1/16W 6.8K	1		R7059	VRE0071E221	M. RESISTOR CH 1/16W 220	1	
R3715	VRE0071E223	M. RESISTOR CH 1/16W 22K	1		R7060	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R3716	VRE0071E682	M. RESISTOR CH 1/16W 6.8K	1		R7061	VRE0071E221	M. RESISTOR CH 1/16W 220	1	
R3717	VRE0071E223	M. RESISTOR CH 1/16W 22K	1		R7062	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R3718	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1		R7063	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R3719	VRE0071E153	M. RESISTOR CH 1/16W 15K	1		R7064	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R3720	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1		R7065	ERJ3GEYJ823	M. RESISTOR CH 1/16W 82K	1	
R3725	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R7067	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R3726	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R7068	VRE0071E682	M. RESISTOR CH 1/16W 6.8K	1	
R3729	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1		R7069	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R3731	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R7070	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R3732	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1		R7071	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R3733	VRE0071E101	M. RESISTOR CH 1/16W 100	1		R7072	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R3735, 36	VRE0071E103	M. RESISTOR CH 1/16W 10K	2		R7073	VRE0071E181	M. RESISTOR CH 1/16W 180	1	
R3739	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R7075	ERJ3GEYJ124	M. RESISTOR CH 1/16W 120K	1	
R3740-42	VRE0071E103	M. RESISTOR CH 1/16W 10K	3		R7076	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R3743	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R7078	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3745	VRE0071E101	M. RESISTOR CH 1/16W 100	1		R7079	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R3750, 51	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	2		R7080, 81	VRE0071E331	M. RESISTOR CH 1/16W 330	2	
R3752	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R7082	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R3758, 59	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2		R7083, 84	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R3760	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R7085	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R3802	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R7086	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R3806	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R7087, 88	VRE0071E331	M. RESISTOR CH 1/16W 330	2	
R3808-15	VRE0071E103	M. RESISTOR CH 1/16W 10K	8		R7089	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R3824	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R7090	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R3829-31	VRE0071E101	M. RESISTOR CH 1/16W 100	3		R7092	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R3834	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R7093	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R3835	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R7094, 95	VRE0071E102	M. RESISTOR CH 1/16W 1K	2	
R3836-40	VRE0071E101	M. RESISTOR CH 1/16W 100	5		R7096, 97	VRE0071E221	M. RESISTOR CH 1/16W 220	2	
R3842, 43	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2		R7098	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
R3844-46	VRE0071E103	M. RESISTOR CH 1/16W 10K	3		R7099	VRE0071E473	M. RESISTOR CH 1/16W 47K	1	
R3850	VRE0071E101	M. RESISTOR CH 1/16W 100	1		R7100	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R3851-53	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3		R7101	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R3854, 55	VRE0071E101	M. RESISTOR CH 1/16W 100	2		R7103	VRE0071E821	M. RESISTOR CH 1/16W 820	1	
R3856, 57	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2		R7104	VRE0071E331	M. RESISTOR CH 1/16W 330	1	
R7002	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1		R7108	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7003	VRE0071E272	M. RESISTOR CH 1/16W 2.7K	1		R7109	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R7004	VRE0071E682	M. RESISTOR CH 1/16W 6.8K	1		R7110	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7005	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R7201	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R7006	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1		R7203	VRE0071E101	M. RESISTOR CH 1/16W 100	1	
R7007	VRE0071E221	M. RESISTOR CH 1/16W 220	1		R7204	VRE0071E301	M. RESISTOR CH 1/16W 300	1	
R7008	VRE0071E331	M. RESISTOR CH 1/16W 330	1		R7205	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R7009	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1		R7206	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R7010	VRE0071E101	M. RESISTOR CH 1/16W 100	1		R7207	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R7011	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R7209	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R7012	ERJ3GEYJ124	M. RESISTOR CH 1/16W 120K	1		R7210	VRE0071E331	M. RESISTOR CH 1/16W 330	1	
R7013	VRE0071E102	M. RESISTOR CH 1/16W 1K	1		R7211	VRE0071E471	M. RESISTOR CH 1/16W 470	1	
R7016	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R7213	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R7017, 18	VRE0071E102	M. RESISTOR CH 1/16W 1K	2		R7214	VRE00607103	M. RESISTOR CH 1/16W 10K	1	
R7019	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1		R7215	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7021	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R7216	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R7022	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1		R7217	VRE0071E301	M. RESISTOR CH 1/16W 300	1	
R7024	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1		R7218	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R7025	VRE0071E471	M. RESISTOR CH 1/16W 470	1		R7219	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R7026	VRE0071E101	M. RESISTOR CH 1/16W 100	1		R7221	VRE0071E821	M. RESISTOR CH 1/16W 820	1	
R7027	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1		R7222	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R7028	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1		R7223	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7029	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1		R7224	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R7031	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1		R7225	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R7032	VRE0071E473	M. RESISTOR CH 1/16W 47K	1		R7226	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R7033	VRE0071E223	M. RESISTOR CH 1/16W 22K	1		R7227	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R7036	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1		R7228	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7037	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1		R7229	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R7038	VRE0071E821	M. RESISTOR CH 1/16W 820	1		R7230	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R7231	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R7232	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1	
R7233	VRE0071E331	M. RESISTOR CH 1/16W 330	1	
R7234	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7235	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R7237	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7238	VRE0071E821	M. RESISTOR CH 1/16W 820	1	
R7240	VRE0071E682	M. RESISTOR CH 1/16W 6.8K	1	
R7241	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R7242	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R7243	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7244	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7245	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R7246	VRE0071E471	M. RESISTOR CH 1/16W 470	1	
R7247, 48	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	2	
R7249	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7250	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7252	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7254	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R7255	VRE0071E471	M. RESISTOR CH 1/16W 470	1	
R7257	VRE0071E471	M. RESISTOR CH 1/16W 470	1	
R7258	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
R7259, 60	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	2	
R7261	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R7262	VRE0071E181	M. RESISTOR CH 1/16W 180	1	
R7263	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7264	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7265	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R7266	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7267	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7268	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R7269, 70	VRE0071E102	M. RESISTOR CH 1/16W 1K	2	
R7271	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R7272	VRE0071E272	M. RESISTOR CH 1/16W 2.7K	1	
R7273	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R7274	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7275	VRE0071E471	M. RESISTOR CH 1/16W 470	1	
R7277	VRE0071E821	M. RESISTOR CH 1/16W 820	1	
R7278	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
R7279	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R7280, 81	VRE0071E102	M. RESISTOR CH 1/16W 1K	2	
R7282	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R7283	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7284, 85	VRE0071E223	M. RESISTOR CH 1/16W 22K	2	
R7286	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R7287	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R7290	VRE0071E822	M. RESISTOR CH 1/16W 8.2K	1	
R7291	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R7292	ERJ3GEYJ154	M. RESISTOR CH 1/16W 150K	1	
R7293	VRE0071E471	M. RESISTOR CH 1/16W 470	1	
R7294	ERJ3GEYJ154	M. RESISTOR CH 1/16W 150K	1	
R7296	VRE0071E471	M. RESISTOR CH 1/16W 470	1	
R7297	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7299	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R7300	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7301, 02	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	2	
R7303	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
R7304	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
R7305	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1	
R7306	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7307	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7308	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
R7309	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7310	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R7311	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R7312	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
R7314	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
R7315	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R7316	VRE0071E221	M. RESISTOR CH 1/16W 220	1	
R7317	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R7318	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7319	VRE0071E181	M. RESISTOR CH 1/16W 180	1	
R7320	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R7321	VRE0071E471	M. RESISTOR CH 1/16W 470	1	
R7322	VRE0071E181	M. RESISTOR CH 1/16W 180	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R7323	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R7324	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R7326	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R7327	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R7329	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R7330	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R7331	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R7333	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7335	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7336	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R7337	VRE0071E473	M. RESISTOR CH 1/16W 47K	1	
R7338	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R7340	VRE0071E473	M. RESISTOR CH 1/16W 47K	1	
R7341, 42	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	2	
R7344	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7346	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R7347	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R7348	VRE0071E153	M. RESISTOR CH 1/16W 15K	1	
R7349	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R7350	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7352-54	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R7356	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R7357	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R7358	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R7360	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R7361	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7363	VRE006810102	M. RESISTOR CH 1/10W 1K	1	
R7364	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7365	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R7366	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	1	
R7367-69	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	3	
R7370	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7372	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R7373	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7374	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R7375	VRE0071E183	M. RESISTOR CH 1/16W 18K	1	
R7376	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	1	
R7377	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R7378	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
R7379	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R7381	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7382	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R7385	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R7386	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7388, 89	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	2	
R7390	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R7391	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7392	VRE0071E331	M. RESISTOR CH 1/16W 330	1	
R7393	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7394	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R7396	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1	
R7398	VRE0071E821	M. RESISTOR CH 1/16W 820	1	
R7399	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7401, 02	VRE0071E331	M. RESISTOR CH 1/16W 330	2	
R7403	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7404	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7406	VRE0071E101	M. RESISTOR CH 1/16W 100	1	
R7407, 08	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	2	
R7409	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R7411	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7412	VRE0071E471	M. RESISTOR CH 1/16W 470	1	
R7413	VRE0071E331	M. RESISTOR CH 1/16W 330	1	
R7414	VRE0071E221	M. RESISTOR CH 1/16W 220	1	
R7415	VRE0071E101	M. RESISTOR CH 1/16W 100	1	
R7416	VRE0071E471	M. RESISTOR CH 1/16W 470	1	
R7420	VRE0034E750	M. RESISTOR CH 1/10W 75	1	
R7423-25	VRE0071E102	M. RESISTOR CH 1/16W 1K	3	
R7426	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R7428	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R7429	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R7430	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R7431, 32	VRE0071E102	M. RESISTOR CH 1/16W 1K	2	
R7433	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R7434	VRE0071E331	M. RESISTOR CH 1/16W 330	1	
R7435	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R7436	VRE0071E101	M. RESISTOR CH 1/16W 100	1		R7801	ERJ8GCVJ1R0	M. RESISTOR CH 1/8W 1	1	
R7437	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1		R7802-11	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	10	
R7438	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1		R7901	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7439	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1		R7902	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R7440	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R7903	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7441	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1		R7905	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R7442	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R7906	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	1	
R7443	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1		R7908	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R7444	VRE0071E223	M. RESISTOR CH 1/16W 22K	1		R7909	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7445	VRE0071E473	M. RESISTOR CH 1/16W 47K	1		R7910	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R7446, 47	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	2		R7911	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	
R7449	VRE0071E331	M. RESISTOR CH 1/16W 330	1		R7912, 13	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R7450	VRE0071E221	M. RESISTOR CH 1/16W 220	1		R7915	VRE0071E471	M. RESISTOR CH 1/16W 470	1	
R7451	VRE0071E101	M. RESISTOR CH 1/16W 100	1		R7916, 17	VRE0071E102	M. RESISTOR CH 1/16W 1K	2	
R7452	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R7918	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	
R7453	VRE0071E471	M. RESISTOR CH 1/16W 470	1		R7919	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7455	VRE0071E223	M. RESISTOR CH 1/16W 22K	1		R7920	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R7456	VRE0071E473	M. RESISTOR CH 1/16W 47K	1		R7921	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R7457	VRE0071E223	M. RESISTOR CH 1/16W 22K	1		R7922	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R7458	VRE0034E750	M. RESISTOR CH 1/10W 75	1		R7924	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R7459	VRE0071E473	M. RESISTOR CH 1/16W 47K	1		R7925	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7460	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1		R7926	VRE0071E682	M. RESISTOR CH 1/16W 6.8K	1	
R7461-63	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	3		R7927	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	
R7465	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1		R40001	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R7466	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R40002	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1	
R7467, 68	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	2		R40003	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1K	1	
R7469	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R40004	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R7470	VRE0071E102	M. RESISTOR CH 1/16W 1K	1		R40005	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R7474-76	VRE0071E103	M. RESISTOR CH 1/16W 10K	3		R40006, 07	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	2	
R7477	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R40008	VRE0071E153	M. RESISTOR CH 1/16W 15K	1	
R7478	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1		R40009	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R7479	VRE0071E102	M. RESISTOR CH 1/16W 1K	1		R40010	VRE0071E331	M. RESISTOR CH 1/16W 330	1	
R7481	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R40011, 12	VRE0071E103	M. RESISTOR CH 1/16W 10K	2	
R7482	VRE0071E101	M. RESISTOR CH 1/16W 100	1		R40013	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	1	
R7483	VRE0071E102	M. RESISTOR CH 1/16W 1K	1		R40014-16	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	3	
R7484	VRE0071E101	M. RESISTOR CH 1/16W 100	1		R40017	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	1	
R7485	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R40018	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R7486	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R40019, 20	ERJ12YJ621	M. RESISTOR CH 1/2W 620	2	
R7490	VRE0071E821	M. RESISTOR CH 1/16W 820	1		R40021	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R7491	VRE0071E221	M. RESISTOR CH 1/16W 220	1		R40022	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1	
R7492	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1		R40023	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1K	1	
R7494	VRE0071E101	M. RESISTOR CH 1/16W 100	1		R40024	VRE0071E153	M. RESISTOR CH 1/16W 15K	1	
R7496	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1		R40025	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R7498	VRE0071E101	M. RESISTOR CH 1/16W 100	1		R40026	VRE0071E331	M. RESISTOR CH 1/16W 330	1	
R7500	VRE0071E473	M. RESISTOR CH 1/16W 47K	1		R40027, 28	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	2	
R7501	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1		R40029-31	VRE0071E103	M. RESISTOR CH 1/16W 10K	3	
R7504	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R40032	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R7601	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1		R40034	VRE0071E473	M. RESISTOR CH 1/16W 47K	1	
R7602	VRE0071E102	M. RESISTOR CH 1/16W 1K	1		R40038	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R7603	VRE0071E821	M. RESISTOR CH 1/16W 820	1		R40039	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7604	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R40047-53	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	7	
R7605	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1		R40054	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R7606	VRE0071E102	M. RESISTOR CH 1/16W 1K	1		R40055	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7607	VRE0071E181	M. RESISTOR CH 1/16W 180	1		R40056	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R7609	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	1		R40057	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7610	VRE0071E471	M. RESISTOR CH 1/16W 470	1		R40058	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R7611	VRE0071E102	M. RESISTOR CH 1/16W 1K	1		R40059	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7620	VRE0034E750	M. RESISTOR CH 1/10W 75	1		R40061-66	VRE0071E103	M. RESISTOR CH 1/16W 10K	6	
R7622	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1		R40067	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7623	VRE0071E102	M. RESISTOR CH 1/16W 1K	1		R40068	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R7624	VRE0071E821	M. RESISTOR CH 1/16W 820	1		R40069	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R7625	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R40070	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R7626	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1		R40071	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7627	VRE0071E102	M. RESISTOR CH 1/16W 1K	1		R40072	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R7628	VRE0071E181	M. RESISTOR CH 1/16W 180	1		R40073	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R7630	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	1		R40074	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R7631	VRE0071E471	M. RESISTOR CH 1/16W 470	1		R40075	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7632	VRE0071E102	M. RESISTOR CH 1/16W 1K	1		R40077	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7641	VRE0034E750	M. RESISTOR CH 1/10W 75	1		R40201	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7643-45	VRE0071E103	M. RESISTOR CH 1/16W 10K	3		R40202	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R7646-48	VRE0071E101	M. RESISTOR CH 1/16W 100	3		R40203	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R7649	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	1		R40204	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R7652, 53	VRE0071E331	M. RESISTOR CH 1/16W 330	2		R40205, 06	VRE0071E473	M. RESISTOR CH 1/16W 47K	2	
R7657, 58	VRE0071E331	M. RESISTOR CH 1/16W 330	2		R40207	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R7660	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	1		R40208	VRE0071E473	M. RESISTOR CH 1/16W 47K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R40210, 11	VRE0071E473	M. RESISTOR CH 1/16W 47K	2	
R40212	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R40213	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R40214	VRE0071E473	M. RESISTOR CH 1/16W 47K	1	
R40215	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R40216	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R40217	VRE0071E473	M. RESISTOR CH 1/16W 47K	1	
R40218-21	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R40222	VRE0071E473	M. RESISTOR CH 1/16W 47K	1	
R40223	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R40224	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R40225	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R40226	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R40227	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R40228	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R40229	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R40230	VRE0071E123	M. RESISTOR CH 1/16W 12K	1	
R40231	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R40232	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R40233	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R40234	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R40235	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R40236	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R40237	VRE0071E123	M. RESISTOR CH 1/16W 12K	1	
R40238	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R40239	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R40240, 41	VRE0071E223	M. RESISTOR CH 1/16W 22K	2	
R40242	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R40243-45	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R40301	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R40302	ERJ6GEY562	M. RESISTOR CH 1/10W 5.6K	1	
R40303	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R40305	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R40306	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R40307	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	1	
R40308	ERJ14YJ100	M. RESISTOR CH 1/4W 10	1	
R40310	ERJ14YJ220	M. RESISTOR CH 1/4W 22	1	
R40311	VRE0071E301	M. RESISTOR CH 1/16W 300	1	
R40312	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R40315	ERJ14YJ100	M. RESISTOR CH 1/4W 10	1	
R40318	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R40320	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R40321	VRE0071E272	M. RESISTOR CH 1/16W 2.7K	1	
R40322	VRE0071E123	M. RESISTOR CH 1/16W 12K	1	
R40323	ERJ6GEY562	M. RESISTOR CH 1/10W 5.6K	1	
R40324	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R40326	VRE0071E682	M. RESISTOR CH 1/16W 6.8K	1	
R40327	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R40328	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R40329	VRE0071E153	M. RESISTOR CH 1/16W 15K	1	
R40330	VRE0071E150	M. RESISTOR CH 1/16W 15	1	
R40332	VRE0071E153	M. RESISTOR CH 1/16W 15K	1	
R40334	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R40335	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R40336	VRE0071E153	M. RESISTOR CH 1/16W 15K	1	
R40337	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R40338	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R40340	ERJ6GEY562	M. RESISTOR CH 1/10W 5.6K	1	
R40341	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R40342	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R40343	ERJ14YJ100	M. RESISTOR CH 1/4W 10	1	
R40344	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	1	
R40345	ERJ14YJ220	M. RESISTOR CH 1/4W 22	1	
R40346	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R40347	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R40348	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R40349	VRE0071E473	M. RESISTOR CH 1/16W 47K	1	
R40350	ERJ14YJ100	M. RESISTOR CH 1/4W 10	1	
R40351	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40352	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R40353	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R40354	ERJ6GEY562	M. RESISTOR CH 1/10W 5.6K	1	
R40355, 56	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R40357	VRE0071E153	M. RESISTOR CH 1/16W 15K	1	
R40358	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R40360	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R40361	ERJ6GEY562	M. RESISTOR CH 1/10W 5.6K	1	
R40362	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R40364	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R40365	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R40366	ERJ14YJ100	M. RESISTOR CH 1/4W 10	1	
R40368	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	1	
R40369	ERJ14YJ220	M. RESISTOR CH 1/4W 22	1	
R40371	VRE0071E301	M. RESISTOR CH 1/16W 300	1	
R40372	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R40373	ERJ14YJ100	M. RESISTOR CH 1/4W 10	1	
R40378	ERJ6GEY562	M. RESISTOR CH 1/10W 5.6K	1	
R40379	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R40380	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R40381	VRE0071E272	M. RESISTOR CH 1/16W 2.7K	1	
R40382	VRE0071E123	M. RESISTOR CH 1/16W 12K	1	
R40383	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R40384	VRE0071E682	M. RESISTOR CH 1/16W 6.8K	1	
R40386	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R40387	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R40389, 90	VRE0071E153	M. RESISTOR CH 1/16W 15K	2	
R40391	VRE0071E150	M. RESISTOR CH 1/16W 15	1	
R40393	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R40394	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R40395	VRE0071E153	M. RESISTOR CH 1/16W 15K	1	
R40396	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R40397	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R40399	ERJ6GEY562	M. RESISTOR CH 1/10W 5.6K	1	
R40400	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R40401	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R40402	ERJ14YJ100	M. RESISTOR CH 1/4W 10	1	
R40403	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	1	
R40404	ERJ14YJ220	M. RESISTOR CH 1/4W 22	1	
R40405	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R40406	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R40407	ERJ14YJ100	M. RESISTOR CH 1/4W 10	1	
R40408	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40409	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R40410	ERJ6GEY562	M. RESISTOR CH 1/10W 5.6K	1	
R40411	VRE0071E153	M. RESISTOR CH 1/16W 15K	1	
R40412	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R40413, 14	VRE0071E473	M. RESISTOR CH 1/16W 47K	2	
R40415	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40416	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R40417	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R40418	VRE0071E473	M. RESISTOR CH 1/16W 47K	1	
R40419	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R40421, 22	VRE0071E103	M. RESISTOR CH 1/16W 10K	2	
R40423	VRE0071E221	M. RESISTOR CH 1/16W 220	1	
R40425, 26	VRE0071E103	M. RESISTOR CH 1/16W 10K	2	
R40427	VRE0071E221	M. RESISTOR CH 1/16W 220	1	
R40429	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R40430	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40433	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R40434	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40462	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40464	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R40466	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40467, 68	VRE0071E103	M. RESISTOR CH 1/16W 10K	2	
R40470	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40471-73	VRE0071E103	M. RESISTOR CH 1/16W 10K	3	
R40474	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40476	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40502, 03	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R40504, 05	VRE0071E103	M. RESISTOR CH 1/16W 10K	2	
R40507-10	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	4	
R40511, 12	VRE0071E103	M. RESISTOR CH 1/16W 10K	2	
R40513, 14	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R40516	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R40517	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40601	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R40602	ERJ3GEYJ392	M. RESISTOR CH 1/10W 3.9K	1	
R40603	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R40604	VRE0071E473	M. RESISTOR CH 1/16W 47K	1	
R40605	ERJ3GEYJ390	M. RESISTOR CH 1/16W 39	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R40606	VRE0071E183	M. RESISTOR CH 1/16W 18K	1		R41012	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R40607	ERJ8G6YJ1R0	M. RESISTOR CH 1/8W 1	1		R41013	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R40608	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1		R41014, 15	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	2	
R40609	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1		R41016	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	1	
R40610	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R41017	ERJ6GEYJ562	M. RESISTOR CH 1/10W 5.6K	1	
R40611	VRE0071E473	M. RESISTOR CH 1/16W 47K	1		R41018	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R40612	ERJ3GEYJ390	M. RESISTOR CH 1/16W 39	1		R41019	VRE0071E153	M. RESISTOR CH 1/16W 15K	1	
R40613	VRE0071E183	M. RESISTOR CH 1/16W 18K	1		R41020	ERJ6GEYJ562	M. RESISTOR CH 1/10W 5.6K	1	
R40614	VRE0071E102	M. RESISTOR CH 1/16W 1K	1		R41021, 22	ERJ14YJ100	M. RESISTOR CH 1/4W 10	2	
R40617	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R41023	ERJ14YJ220	M. RESISTOR CH 1/4W 22	1	
R40618	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R41024	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R40619, 20	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	2		R41025	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40621	VRE0071E473	M. RESISTOR CH 1/16W 47K	1		R41026	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R40622	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R41027, 28	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	2	
R40623	VRE0071E471	M. RESISTOR CH 1/16W 470	1		R41029	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R40624	ERJ3GEYJ124	M. RESISTOR CH 1/16W 120K	1		R41030	VRE0071E153	M. RESISTOR CH 1/16W 15K	1	
R40625	VRE0071E821	M. RESISTOR CH 1/16W 820	1		R41031	ERJ6GEYJ562	M. RESISTOR CH 1/10W 5.6K	1	
R40626	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R41032	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	1	
R40627	VRE0071E221	M. RESISTOR CH 1/16W 220	1		R41033	ERJ6GEYJ562	M. RESISTOR CH 1/10W 5.6K	1	
R40628	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R41034, 35	ERJ14YJ100	M. RESISTOR CH 1/4W 10	2	
R40629	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1		R41036	ERJ14YJ220	M. RESISTOR CH 1/4W 22	1	
R40632	VRE0071E822	M. RESISTOR CH 1/16W 8.2K	1		R41037, 38	VRE0071E103	M. RESISTOR CH 1/16W 10K	2	
R40633	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R41039	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R40634	VRE0071E223	M. RESISTOR CH 1/16W 22K	1		R41040	VRE0071E153	M. RESISTOR CH 1/16W 15K	1	
R40635	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1		R41041	VRE0071E150	M. RESISTOR CH 1/16W 15	1	
R40636	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1		R41042	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R40637	ERJ6GEYJ201	M. RESISTOR CH 1/10W 200	1		R41043	VRE0071E153	M. RESISTOR CH 1/16W 15K	1	
R40638	ERJ8G6YJ1R0	M. RESISTOR CH 1/8W 1	1		R41045, 46	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	2	
R40639	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1		R41047	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R40640	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R41048	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R40701	VRE0071E433	M. RESISTOR CH 1/16W 43K	1		R41049	VRE0071E153	M. RESISTOR CH 1/16W 15K	1	
R40702	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R41050	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	1	
R40703	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1		R41051, 52	ERJ6GEYJ562	M. RESISTOR CH 1/10W 5.6K	2	
R40704	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1		R41053, 54	ERJ14YJ100	M. RESISTOR CH 1/4W 10	2	
R40705	VRE0071E101	M. RESISTOR CH 1/16W 100	1		R41055	ERJ14YJ220	M. RESISTOR CH 1/4W 22	1	
R40706, 07	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	2		R41056	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R40708	VRE0071E102	M. RESISTOR CH 1/16W 1K	1		R41057	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R40709	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1		R41058	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40710	VRE0071E102	M. RESISTOR CH 1/16W 1K	1		R41059, 60	VRE0071E102	M. RESISTOR CH 1/16W 1K	2	
R40711	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1		R41061	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R40712	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R41063	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R40713	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1		R41064	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R40714	VRE0071E471	M. RESISTOR CH 1/16W 470	1		R42001	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40716	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R42002-11	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	10	
R40717	VRE0071E471	M. RESISTOR CH 1/16W 470	1		R42012-14	VRE0071E331	M. RESISTOR CH 1/16W 330	3	
R40720	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R42015	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R40722	VRE0071E123	M. RESISTOR CH 1/16W 12K	1		R42016	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40724	VRE0071E332	M. RESISTOR CH 1/16W 3.3K	1		R42017-19	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R40725	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R42020	VRE0071E331	M. RESISTOR CH 1/16W 330	1	
R40726	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R42021	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40728	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R42022	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R40729	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R42023	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40730	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R42024	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R40920	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R42025	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40929	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R42026	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R40936	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R42029	VRE0071E331	M. RESISTOR CH 1/16W 330	1	
R40942	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R42030, 31	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R40971-76	VRE0071E103	M. RESISTOR CH 1/16W 10K	6		R42101-04	VRE0071E331	M. RESISTOR CH 1/16W 330	4	
R40977	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R42105	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40979	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R42106	VRE0071E331	M. RESISTOR CH 1/16W 330	1	
R40981, 82	VRE0071E103	M. RESISTOR CH 1/16W 10K	2		R42107-09	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R40984, 85	VRE0071E103	M. RESISTOR CH 1/16W 10K	2		R42111, 12	VRE0071E331	M. RESISTOR CH 1/16W 330	2	
R40984	VRE0071E102	M. RESISTOR CH 1/16W 1K	1		R42113	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40995, 96	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	2		R42114	VRE0071E331	M. RESISTOR CH 1/16W 330	1	
R40997	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1		R42201	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R40998	VRE0071E153	M. RESISTOR CH 1/16W 15K	1		R42203-05	VRE0071E331	M. RESISTOR CH 1/16W 330	3	
R40999	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	1		R42207	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R41000, 01	ERJ6GEYJ562	M. RESISTOR CH 1/10W 5.6K	2		R42208, 09	VRE0071E331	M. RESISTOR CH 1/16W 330	2	
R41002, 03	ERJ14YJ100	M. RESISTOR CH 1/4W 10	2		R42211	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R41004	ERJ14YJ220	M. RESISTOR CH 1/4W 22	1		R42301	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	
R41005	VRE0071E153	M. RESISTOR CH 1/16W 15K	1		R42302	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R41006	VRE0071E150	M. RESISTOR CH 1/16W 15	1		R42303	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R41007, 08	VRE0071E103	M. RESISTOR CH 1/16W 10K	2		R42304	VRE0071E101	M. RESISTOR CH 1/16W 100	1	
R41009	VRE0071E153	M. RESISTOR CH 1/16W 15K	1		R42305, 06	VRE0071E103	M. RESISTOR CH 1/16W 10K	2	
R41011	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1		R42401-04	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R42405	VRE0071E331	M. RESISTOR CH 1/16W 330	1	
R42406-24	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	19	
R42425-40	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	16	
R42441	VRE0071E331	M. RESISTOR CH 1/16W 330	1	
R42442-44	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	3	
R42445	VRE0071E331	M. RESISTOR CH 1/16W 330	1	
R42502	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
SW40001, 0	VSS0126	SWITCH	2	
T40601, 02	VL70729	TRANSFORMER	2	
TG3001	EYF60U	TEST POINT	1	
TG3201	EYF60U	TEST POINT	1	
TG3501	EYF60U	TEST POINT	1	
TG7001	EYF60U	TEST POINT	1	
TG40001	EYF60U	TEST POINT	1	
TG40208	VJR0098	TEST POINT	1	
TG40301	EYF60U	TEST POINT	1	
TG40701	EYF60U	TEST POINT	1	
TG40901	EYF60U	TEST POINT	1	
TH7201	ERTD2FHL102S	THERMISTOR 1K	1	
TP3001, 02	EYF60U	TEST POINT	2	
TP3105, 06	EYF60U	TEST POINT	2	
TP3201-07	EYF60U	TEST POINT	7	
TP3407, 08	EYF60U	TEST POINT	2	
TP3501, 02	EYF60U	TEST POINT	2	
TP3601	EYF60U	TEST POINT	1	
TP3701-04	EYF60U	TEST POINT	4	
TP3801-09	EYF60U	TEST POINT	9	
TP7004	EYF60U	TEST POINT	1	
TP7203-05	EYF60U	TEST POINT	3	
TP7403-09	EYF60U	TEST POINT	7	
TP7601, 02	EYF60U	TEST POINT	2	
TP40001-0	EYF60U	TEST POINT	5	
TP40206, 0	EYF60U	TEST POINT	2	
TP40210	EYF60U	TEST POINT	1	
TP40301-0	EYF60U	TEST POINT	4	
TP40601	EYF60U	TEST POINT	1	
TP40602	VJR0098	TEST POINT	1	
TP40603	EYF60U	TEST POINT	1	
TP40701, 0	EYF60U	TEST POINT	2	
TP40901-0	EYF60U	TEST POINT	6	
TP42101-0	EYF60U	TEST POINT	4	
TP42301, 0	EYF60U	TEST POINT	2	
VC7201	VCV0050	TRIMMER	1	
VC7401	VCV0050	TRIMMER	1	
VL3701	VLQ0415	COIL	1	
VR3002	EVN7JGA00B13	V. RESISTOR 1K	1	
VR3006	EVN7JGA00B13	V. RESISTOR 1K	1	
VR3008	EVN7JGA00B52	V. RESISTOR 500	1	
VR3201	EVN7JGA00B13	V. RESISTOR 1K	1	
VR3203	EVN7JGA00B23	V. RESISTOR 2K	1	
VR3208	EVN7JGA00B23	V. RESISTOR 2K	1	
VR3211	EVN7JGA00B14	V. RESISTOR 10K	1	
VR3213, 14	EVN7JGA00B23	V. RESISTOR 2K	2	
VR3405	EVN7JGA00B53	V. RESISTOR 5K	1	
VR3501, 02	EVN7JGA00B53	V. RESISTOR 5K	2	
VR3503	EVN7JGA00B52	V. RESISTOR 500	1	
VR3601	EVN7JGA00B52	V. RESISTOR 500	1	
VR3602	EVN7JGA00B53	V. RESISTOR 5K	1	
VR3701	EVN7JGA00B23	V. RESISTOR 2K	1	
VR7003	EVN7JGA00B13	V. RESISTOR 1K	1	
VR7004	EVN7JGA00B15	V. RESISTOR 100K	1	
VR7006	EVN7JGA00B13	V. RESISTOR 1K	1	
VR7007	EVN7JGA00B14	V. RESISTOR 10K	1	
VR7008	EVN7JGA00B52	V. RESISTOR 500	1	
VR7009	EVN7JGA00B13	V. RESISTOR 1K	1	
VR7010	EVN7JGA00B52	V. RESISTOR 500	1	
VR7202	EVN7JGA00B23	V. RESISTOR 2K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
VR7204	EVN7JGA00B23	V. RESISTOR 2K	1	
VR7205	EVN7JGA00B13	V. RESISTOR 1K	1	
VR7206	EVN7JGA00B53	V. RESISTOR 5K	1	
VR7207	EVN7JGA00B13	V. RESISTOR 1K	1	
VR7208	EVN7JGA00B53	V. RESISTOR 5K	1	
VR7210	EVN7JGA00B52	V. RESISTOR 500	1	
VR7214	EVN7JGA00B24	V. RESISTOR 20K	1	
VR7215	EVN7JGA00B14	V. RESISTOR 10K	1	
VR7402	EVN7JGA00B52	V. RESISTOR 500	1	
VR7601	EVN7JGA00B13	V. RESISTOR 1K	1	
VR7603	EVN7JGA00B13	V. RESISTOR 1K	1	
VR7605, 06	EVN7JGA00B52	V. RESISTOR 500	2	
VR7901	EVN7JGA00B24	V. RESISTOR 20K	1	
VR7902	EVN7JGA00B14	V. RESISTOR 10K	1	
VR40001, 0	VRV0161B103	V. RESISTOR 10K	2	
VR40201, 0	VRV0161B103	V. RESISTOR 10K	2	
VR40302	VRV0161B102	V. RESISTOR 1K	1	
VR40304	VRV0161B102	V. RESISTOR 1K	1	
VR40309, 1	EVN7JGA00B14	V. RESISTOR 10K	2	
VR40601	VRV0161B503	V. RESISTOR 50K	1	
VR40602	VRV0161B103	V. RESISTOR 10K	1	
VR40701	VRV0161B503	V. RESISTOR 50K	1	
VR40902, 0	VRV0161B102	V. RESISTOR 1K	2	
X3401	VXS0270	CRYSTAL OSCILLATOR	1	
X42101	VXS0519	CRYSTAL OSCILLATOR	1	
X42201	VXS0453	CRYSTAL OSCILLATOR	1	
X42301	VXS0665	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VJF0658	RIB	3	
	VNX2643	CARD EDGE SPACER	3	
	VKG0422	SPACER	2	
	VJF0309	CLAMPER	1	
	VJF1312	CONNECTOR HOLDER	3	
■ E6	VEPO4641B	ANALOG 2 P.C. BOARD	1	(RTL)
C3001	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3003	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3005	ECEV1GN100Q	E. CAPACITOR CH 16V 10U	1	
C3006	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C3007	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3008	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
C3010	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3011	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C3013	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3016	ECEV0JV101Q	E. CAPACITOR CH6.3V 100U	1	
C3017	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C3018	ECEV0JV330Q	E. CAPACITOR CH6.3V 33U	1	
C3019	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3020	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C3021	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3024	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3026	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C3028, 29	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C3030	ECUX1H120JCV	C. CAPACITOR CH 50V 12P	1	
C3031	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C3032	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C3033	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	1	
C3034	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3035	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C3036, 37	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3038	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3039	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C3040	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C3041	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3042	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C3043	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3044	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C3045	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C3048	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3049	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1		C3293	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C3050	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	1		C3295	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C3051	ECEV1AN330Q	E. CAPACITOR CH 10V 33U	1		C3402	ECUX1H070DCV	C. CAPACITOR CH 50V 7P	1	
C3052	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1		C3405	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3053	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C3408	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3054	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1		C3408	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C3057-59	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	3		C3409	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C3064	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1		C3410	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C3066	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1		C3412	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C3072	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1		C3417	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C3073, 74	ECST1CX106Z	T. CAPACITOR CH 16V 10U	2		C3420	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	1	
C3075-77	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3		C3421	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3078	ECUM1E473KBN	C. CAPACITOR CH 25V 0.47U	1		C3423	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C3080	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1		C3425-27	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	3	
C3081	ECUX1H472KBV	C. CAPACITOR CH 50V 4700P	1		C3429	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C3082	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C3430	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3084	ECUM1C474KBM	C. CAPACITOR CH 16V 0.47U	1		C3440	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	1	
C3085	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1		C3441	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3086	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1		C3442	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3087, 88	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2		C3443	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3089	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1		C3444	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C3091	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1		C3445	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1	
C3092	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C3446	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3094	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1		C3447	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1	
C3095	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1		C3448	ECUM1C474KBM	C. CAPACITOR CH 16V 0.47U	1	
C3096	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1		C3449	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3097	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C3450	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3098	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1		C3451	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C3099	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1		C3453	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C3100	ECUX1H060DCV	C. CAPACITOR CH 50V 6P	1		C3454	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C3101	ECUX1H560JCV	C. CAPACITOR CH 50V 56P	1		C3455	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C3102	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1		C3456	ECUX1H070DCV	C. CAPACITOR CH 50V 7P	1	
C3103, 04	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2		C3458	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C3201	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1		C3459	ECUX1H390JCV	C. CAPACITOR CH 50V 39P	1	
C3203	ECUX1H471JUUV	C. CAPACITOR CH 50V 470P	1		C3460	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C3208	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1		C3461	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	1	
C3212	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	1		C3462	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1	
C3214	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1		C3463, 64	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	2	
C3215	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1		C3465	ECEV1HN010Q	E. CAPACITOR CH 50V 1U	1	
C3216	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1		C3466	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C3218	ECUX1H560JCV	C. CAPACITOR CH 50V 56P	1		C3468	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3219	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C3469	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C3223	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1		C3470, 71	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3224	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	1		C3472	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C3227	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		C3473	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C3234	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1		C3476	ECEV1EV4R7Q	E. CAPACITOR CH 25V 4.7U	1	
C3236	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C3477	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C3237	ECEV1CV220Q	E. CAPACITOR CH 16V 22U	1		C3501	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C3238	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1		C3502	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3239	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C3503	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	1	
C3241	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1		C3505	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C3243	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	1		C3506	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3245	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		C3507	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C3247	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1		C3508, 09	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3250	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1		C3510	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C3251	ECEV1CV220Q	E. CAPACITOR CH 16V 22U	1		C3511	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C3255, 56	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	2		C3515	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3257	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1		C3516	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C3258	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C3517	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C3260	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1		C3520	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3261	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1		C3521	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	1	
C3264	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1		C3522	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3265	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1		C3523	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C3267	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C3524	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C3270	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1		C3525, 26	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3278	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1		C3527	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C3279	ECEV1CV220Q	E. CAPACITOR CH 16V 22U	1		C3528	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C3280-82	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	3		C3535	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C3283	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1		C3537	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C3284	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C3538	ECUM1C474KBM	C. CAPACITOR CH 16V 0.47U	1	
C3285	ECUX1H560JCV	C. CAPACITOR CH 50V 56P	1		C3540, 41	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	2	
C3286, 87	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	2		C3601	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C3288, 89	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	2		C3602	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	1	
C3291	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1		C3605	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C3292	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		C3606	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3607	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
C3608	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C3609	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3612	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C3615	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3616	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C3701, 02	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	2	
C3703	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C3704	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C3705	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1	
C3706	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C3707	ECUX1H471JUV	C. CAPACITOR CH 50V 470P	1	
C3708	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C3709	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C3710, 11	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C3712	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C3713	ECUX1H060DCV	C. CAPACITOR CH 50V 6P	1	
C3714	ECEV1HN010Q	E. CAPACITOR CH 50V 1U	1	
C3715	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C3716	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1	
C3717	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C3719	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
C3720	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C3721	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C3722-26	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	5	
C3727	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C3728	ECEV1HN010Q	E. CAPACITOR CH 50V 1U	1	
C3729-32	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C3734	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C3735	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C3801-06	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	6	
C3806-15	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	8	
C3816	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C7002, 03	ECST1CX106Z	T. CAPACITOR CH 16V 10U	2	
C7004, 05	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C7006	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C7008	ECUX1H391JCV	C. CAPACITOR CH 50V 390P	1	
C7009	ECUX1H0200CV	C. CAPACITOR CH 50V 2P	1	
C7010	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C7012, 13	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C7015-18	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C7019	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C7021	ECUX1H0500CV	C. CAPACITOR CH 50V 5P	1	
C7022	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C7023	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C7024, 25	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C7026	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C7027	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7028	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C7030	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7032	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7033	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C7034	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C7035	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C7036-40	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	5	
C7041	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C7042	ECUX1H391JCV	C. CAPACITOR CH 50V 390P	1	
C7044	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C7045	ECUX1H0200CV	C. CAPACITOR CH 50V 2P	1	
C7046	ECUM1C474KBM	C. CAPACITOR CH 16V 0.47U	1	
C7047, 48	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C7050	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C7051	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C7052, 53	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	2	
C7054	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7055	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C7056	ECUM1C474KBM	C. CAPACITOR CH 16V 0.47U	1	
C7057	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7058	ECGF1H181JC	C. CAPACITOR 50V 180P	1	
C7201	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7203, 04	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C7205	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C7206-08	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C7209	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
C7210	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C7214	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
C7215	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C7216	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C7217	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7218	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C7219	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
C7220	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C7221	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C7226	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7227	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C7228	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
C7229, 30	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C7231	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
C7232	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7234	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7235	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C7236	ECST1CY105Z	T. CAPACITOR CH 16V 1U	1	
C7237	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7238	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1	
C7240	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C7241	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C7242	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7243	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1	
C7244, 45	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C7247	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C7249	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7251	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7252	ECUX1H391JCV	C. CAPACITOR CH 50V 390P	1	
C7253	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C7254	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7255	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C7256	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7257	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C7258	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7259	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C7260, 61	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C7262	ECEVOJV470Q	E. CAPACITOR CH6. 3V 47U	1	
C7265, 66	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C7267-70	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	4	
C7271	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7272, 73	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	2	
C7275, 76	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C7277	ECEVOJV470Q	E. CAPACITOR CH6. 3V 47U	1	
C7278, 79	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C7280	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C7281	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C7282-84	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C7285	ECUX1H271JCV	C. CAPACITOR CH 50V 270P	1	
C7286	ECUX1H120JCV	C. CAPACITOR CH 50V 12P	1	
C7287	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C7288	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7291	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C7292	ECUX1H1000CV	C. CAPACITOR CH 50V 10P	1	
C7293-96	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C7298	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7300	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C7301	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C7302	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7303	ECUX1H1000CV	C. CAPACITOR CH 50V 10P	1	
C7314	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7316	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C7318	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C7319-24	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	6	
C7325	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C7326	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C7327	ECUX1H390JCV	C. CAPACITOR CH 50V 39P	1	
C7328	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1	
C7329	ECUX1H0500CV	C. CAPACITOR CH 50V 5P	1	
C7330	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7331	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7335	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C7336	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7337, 38	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	2	
C7339	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7344	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7401	ECST1C106Z	T. CAPACITOR CH 16V 10U	1		C45006	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C7402	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C45007	ECEV1CN100Q	E. CAPACITOR CH 16V 10U	1	
C7403	ECST1C106Z	T. CAPACITOR CH 16V 10U	1		C45008	ECEV1CV220Q	E. CAPACITOR CH 16V 22U	1	
C7404, 05	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C45009	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C7406	EGUX1H100DGV	C. CAPACITOR CH 50V 10P	1		C45010	ECEV0JV330Q	E. CAPACITOR CH6.3V 33U	1	
C7408	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C45011	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7411	EGUX1H180JCV	C. CAPACITOR CH 50V 18P	1		C45012	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C7413, 14	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C45013, 14	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C7415	ECUM1C474KBM	C. CAPACITOR CH 16V 0.47U	1		C45015	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C7416	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C45016	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7417	EGUX1H221JCV	C. CAPACITOR CH 50V 220P	1		C45017	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C7418	EGUX1H470JCV	C. CAPACITOR CH 50V 47P	1		C45018	ECEV0JV330Q	E. CAPACITOR CH6.3V 33U	1	
C7419	EGUX1H220JCV	C. CAPACITOR CH 50V 22P	1		C45019	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7420	EGUX1H470JCV	C. CAPACITOR CH 50V 47P	1		C45020	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C7425	EGUX1H220JCV	C. CAPACITOR CH 50V 22P	1		C45021	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7426, 27	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C45022	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C7428	EGUX1H470JCV	C. CAPACITOR CH 50V 47P	1		C45023, 24	ECEV1EV330Q	E. CAPACITOR CH 25V 33U	2	
C7429	EGUX1H220JCV	C. CAPACITOR CH 50V 22P	1		C45025	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C7430, 31	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C45026	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7432	EGUX1H470JCV	C. CAPACITOR CH 50V 47P	1		C45027	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C7434	EGUX1H220JCV	C. CAPACITOR CH 50V 22P	1		C45028	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7435	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C45029, 30	ECEV1EV330Q	E. CAPACITOR CH 25V 33U	2	
C7436	EGUX1H220JCV	C. CAPACITOR CH 50V 22P	1		C45032, 33	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C7437	EGUX1H151JCV	C. CAPACITOR CH 25V 150P	1		C45034	ECEV0JV330Q	E. CAPACITOR CH6.3V 33U	1	
C7438-42	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5		C45036	ECU1H472JB	P. CAPACITOR 50V 4700P	1	
C7443, 44	EGUX1H102JCV	C. CAPACITOR CH 50V 1000P	2		C45037	EGUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C7445	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C45038	ECUX1H182KBV	C. CAPACITOR CH 50V 1800P	1	
C7448	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C45039	ECUX1H561JCV	C. CAPACITOR CH 50V 560P	1	
C7449	EGUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C45040	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C7450, 51	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C45041	ECEV1CN100Q	E. CAPACITOR CH 16V 10U	1	
C7455	EGUX1H100DGV	C. CAPACITOR CH 50V 10P	1		C45042	ECEV1CV220Q	E. CAPACITOR CH 16V 22U	1	
C7456	EGUX1H560JCV	C. CAPACITOR CH 50V 56P	1		C45046, 47	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C7601	EGUX1H470JCV	C. CAPACITOR CH 50V 47P	1		C45048	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C7602	EGUX1H680JCV	C. CAPACITOR CH 50V 68P	1		C45049, 50	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C7603, 04	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C45051	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C7605	EGUX1H270JCV	C. CAPACITOR CH 50V 27P	1		C45052, 53	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C7606	EGUX1H391JCV	C. CAPACITOR CH 50V 390P	1		C45054	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C7607, 08	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C45055, 56	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C7616	EGUX1H470JCV	C. CAPACITOR CH 50V 47P	1		C45068	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7617	EGUX1H680JCV	C. CAPACITOR CH 50V 68P	1		C45069, 70	ECEV1CN100Q	E. CAPACITOR CH 16V 10U	2	
C7618, 19	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C45071-73	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C7620	EGUX1H270JCV	C. CAPACITOR CH 50V 27P	1		C45074	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C7621	EGUX1H391JCV	C. CAPACITOR CH 50V 390P	1		C45075, 76	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C7629	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C45077	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C7630	ECST1C106Z	T. CAPACITOR CH 16V 10U	1		C45078, 79	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C7631-33	EGUX1H220JCV	C. CAPACITOR CH 50V 22P	3		C45080	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C7635	EGUX1H470JCV	C. CAPACITOR CH 50V 47P	1		C45081	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C7637	ECUM1C474KBM	C. CAPACITOR CH 16V 0.47U	1		C45082	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7639, 40	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C45083	ECEV1CN100Q	E. CAPACITOR CH 16V 10U	1	
C7641	EGUX1H100DGV	C. CAPACITOR CH 50V 10P	1		C45084	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C7642	EGUX1H470JCV	C. CAPACITOR CH 50V 47P	1		C45085	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7644	ECUM1C474KBM	C. CAPACITOR CH 16V 0.47U	1		C45086	ECEV1CN100Q	E. CAPACITOR CH 16V 10U	1	
C7646	EGUX1H100DGV	C. CAPACITOR CH 50V 10P	1		C45087-98	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	10	
C7647, 48	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C45098-00	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C7656, 57	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C45101	ECEV1EV470Q	E. CAPACITOR CH 25V 4.7U	1	
C7901	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C45102	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C7902	ECEV0JV330Q	E. CAPACITOR CH6.3V 33U	1		C45103-05	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C7903	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C45106	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C7904	EGUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C45107, 08	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C7905	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		C45201	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7906, 07	EGUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2		C45203	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7908	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C45205	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7909, 10	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	2		C45206	ECEV0JV330Q	E. CAPACITOR CH6.3V 33U	1	
C7911	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C45207	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7912, 13	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	2		C45209, 10	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	2	
C7914	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C45211	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C7915	EGUX1H102JCV	C. CAPACITOR CH 50V 1000P	1		C45212-15	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C7919	EGUX1H180JCV	C. CAPACITOR CH 50V 18P	1		C45216	ECEV0JV101Q	E. CAPACITOR CH6.3V 100U	1	
C7920	EGUX1H470JCV	C. CAPACITOR CH 50V 47P	1		C45217	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7922, 23	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C45218	ECEV1CN100Q	E. CAPACITOR CH 16V 10U	1	
C7924	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		C45219	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C45002	ECU1H472JB	P. CAPACITOR 50V 4700P	1		C45220	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C45003	EGUX1H330JCV	C. CAPACITOR CH 50V 33P	1		C45221-23	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C45004	ECUX1H561JCV	C. CAPACITOR CH 50V 560P	1		C45224	ECEV1CN100Q	E. CAPACITOR CH 16V 10U	1	
C45005	ECUX1H182KBV	C. CAPACITOR CH 50V 1800P	1		C45225	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C45226	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C45227	EGUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C45231	EGUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C45232	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C45233	EGUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C45237	EGHU1H472JB	P. CAPACITOR 50V 4700P	1	
C45238	ECEV1CN100Q	E. CAPACITOR CH 16V 10U	1	
C45239	EGHU1H472JB	P. CAPACITOR 50V 4700P	1	
C45240	ECEV1CN100Q	E. CAPACITOR CH 16V 10U	1	
C45241, 42	EGUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C45243	ECEV1CN100Q	E. CAPACITOR CH 16V 10U	1	
C45244	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C45245, 46	ECEV1HV010Q	E. CAPACITOR CH 50V 1U	2	
C45247, 48	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	2	
C45249	ECEV1CN100Q	E. CAPACITOR CH 16V 10U	1	
C45250	EGUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C45251	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C45252	ECUM1H333KBN	C. CAPACITOR CH 50V 0.033U	1	
C45253	EGUX1H682KBV	C. CAPACITOR CH 50V 6800P	1	
C45254	ERJ8GEYOR00	M. RESISTOR CH 1/8W 0	1	
C45256, 57	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	2	
C45258	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C45259	ECEA10GE471	E. CAPACITOR 16V 470U	1	
C45260	EGHU1C104J	P. CAPACITOR 16V 0.1U	1	
C45261, 62	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	2	
C45263	EGHU1C104J	P. CAPACITOR 16V 0.1U	1	
C45264	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C45265	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C45266	ECEA10GE471	E. CAPACITOR 16V 470U	1	
C45267	EGUX1H682KBV	C. CAPACITOR CH 50V 6800P	1	
C45268	ECUM1H333KBN	C. CAPACITOR CH 50V 0.033U	1	
C45269	EGUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C45270, 71	ECEV1EV330Q	E. CAPACITOR CH 25V 33U	2	
C45272	ERJ8GEYOR00	M. RESISTOR CH 1/8W 0	1	
C45273	EGUX1H682KBV	C. CAPACITOR CH 50V 6800P	1	
C45275	ERJ8GEYOR00	M. RESISTOR CH 1/8W 0	1	
C45276	ECEV0JV101Q	E. CAPACITOR CH6. 3V 100U	1	
C45277	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C45278	EGUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C45279	EGHU1H681JB	P. CAPACITOR 50V 680P	1	
C45280	EGHU1H102JB	P. CAPACITOR 50V 1000P	1	
C45281	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C45282	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C45283-85	EGUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C45286, 87	ECEV1EV330Q	E. CAPACITOR CH 25V 33U	2	
C45301	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C45302	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C45303, 04	EGUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C45305	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C45306	EGUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C45308	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C45309	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C45310	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C45312	EGUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C45313, 14	EGUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C45315	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C45316	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C45317	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C45318	EGUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C45319	EGUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C45321	EGUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C45322	EGUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C45323, 24	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	2	
C45325	EGUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C45326	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C45327	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C45329-31	EGUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
C45332	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C45334	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C45335	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C45336	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C45338	EGUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C45339, 40	EGUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C45341	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C45342	ECEV0JV330Q	E. CAPACITOR CH6. 3V 33U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C45343, 44	EGUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C45345	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C45346	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C45347	EGUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C45348	EGUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C45349, 50	EGUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C45351	ECEV0JV330Q	E. CAPACITOR CH6. 3V 33U	1	
C45352	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C45353	EGUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C45354	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C45355	EGUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C45357	EGUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C45360, 61	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	2	
C45362	EGUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C45363, 64	ECEV1CN100Q	E. CAPACITOR CH 16V 10U	2	
C45365-78	EGUX1E104ZV	C. CAPACITOR CH 25V 0.1U	14	
C45402	EGUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C45403	EGUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C45404, 05	ECEV0JV330Q	E. CAPACITOR CH6. 3V 33U	2	
C45406	EGUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C45407-11	EGUX1H103KBV	C. CAPACITOR CH 50V 0.01U	5	
C45412-14	EGUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C45601	EGST1CD476Z	T. CAPACITOR CH 16V 47U	1	
C45602	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C45603	ECUM1H223KBN	C. CAPACITOR CH 50V 0.022U	1	
C45604	EGUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C45605	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C45606, 07	EGHS1682JZ	P. CAPACITOR 6800P	2	
C45608	EGST1CD476Z	T. CAPACITOR CH 16V 47U	1	
C45609	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C45610	ECUM1H223KBN	C. CAPACITOR CH 50V 0.022U	1	
C45611	EGUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C45612	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C45613, 14	EGHS1682JZ	P. CAPACITOR 6800P	2	
C45615	EGUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C45616	ECEV0JN100Q	E. CAPACITOR CH6. 3V 10U	1	
C45617	EGUX1H390JCV	C. CAPACITOR CH 50V 39P	1	
C45618	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
C45619	ECUM1H273KBN	C. CAPACITOR CH 50V 0.027U	1	
C45620	EGUX1H822KBV	C. CAPACITOR CH 50V 8200P	1	
C45621, 22	EGUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C45623	ECEV0JN100Q	E. CAPACITOR CH6. 3V 10U	1	
C45624	EGUX1H222KBV	C. CAPACITOR CH 50V 2200P	1	
C45625	VCC0030	C. CAPACITOR	1	
C45626	EGUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C45628	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C45629	EGUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C45701-03	EGUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C45704	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C45705	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C45706	ECEV1CV220Q	E. CAPACITOR CH 16V 22U	1	
C45707	EGUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C45708	ECEV0JV470Q	E. CAPACITOR CH6. 3V 47U	1	
C45709	EGST1VY684Z	T. CAPACITOR CH 35V 0.68U	1	
C45710	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C45711	EGUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C45712	EGUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C45713, 14	EGUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C45715, 16	EGUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C45717, 18	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	2	
C45719	ECEV1CN100Q	E. CAPACITOR CH 16V 10U	1	
C45720, 21	EGUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C45723	EGHU1H683JB	P. CAPACITOR 50V 0.068U	1	
C45724, 25	EGUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C45726	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C47001-06	EGUX1E104ZV	C. CAPACITOR CH 25V 0.1U	6	
C47007	ECEV0JV330Q	E. CAPACITOR CH6. 3V 33U	1	
C47008	EGUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C47009	EGUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C47101, 02	EGUX1H180JCV	C. CAPACITOR CH 50V 18P	2	
C47103-12	EGUX1E104ZV	C. CAPACITOR CH 25V 0.1U	10	
C47201-04	EGUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C47205	EGUX1E104KBM	C. CAPACITOR CH 25V 0.1U	1	
C47206	EGUX1H1000CV	C. CAPACITOR CH 50V 10P	1	
C47207	EGUX1H150JCV	C. CAPACITOR CH 50V 15P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C47208-18	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	9		IC3405	XC62AP5002P	IC	1	
C47217	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	1		IC3409	NJM082BV	IC	1	
C47218	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		IC3410	NJM084V	IC	1	
C47301	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	1		IC3413	MC14053BD	IC	1	
C47302, 03	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2		IC3416	TC7S00FU	IC	1	
C47304, 05	ECEV1HVOR1Q	E. CAPACITOR CH 50V 0.1U	2		IC3417	AN91A12S	IC	1	
C47306	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	1		IC3418	NJM78L09UA	IC	1	
C47307	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		IC3420	TC7S08FU	IC	1	
C47308	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1		IC3501, 02	CXD1176Q	IC	2	
C47309, 10	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2		IC3505	EL2270CS	IC	1	
C47401-06	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	6		IC3506	XC62AP5002P	IC	1	
C47407	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	1		IC3508	EL4089CS	IC	1	
C47408	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1		IC3601	CXD1176Q	IC	1	
C47501-04	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4		IC3701, 02	SN74LS221NS	IC	2	
D3003	MA142WK	DIODE	1		IC3703	TC7S00FU	IC	1	
D3201	MA142WK	DIODE	1		IC3704	TC7S14F	IC	1	
D3405	MA142WK	DIODE	1		IC3705	TCVHC74FS	IC	1	
D3701	MA142WK	DIODE	1		IC3706	NJM082BV	IC	1	
D3702	MA335-R	DIODE	1		IC3707	TC4W53FU	IC	1	
D7002	MA142WK	DIODE	1		IC3708	TCVHC244FS	IC	1	
D7201, 02	MA335-R	DIODE	2		IC3709	MN53015VZK	IC	1	
D7203, 04	MA152K	DIODE	2		IC3710	TC7S00FU	IC	1	
D7206	MA142WK	DIODE	1		IC3801	T160G70-1586	IC	1	
D7901	MA142WK	DIODE	1		IC3802, 03	UPD42280G3	IC	2	
D45001	MA142WK	DIODE	1		IC3804	TC7W04FU	IC	1	
D45002	MA142WA	DIODE	1		IC3805	TC7W125FU	IC	1	
D45003	MA142WK	DIODE	1		IC3806, 07	74F541SJ	IC	2	
D45004	MA142WA	DIODE	1		IC7002	TC7W04FU	IC	1	
D45201, 02	MA142WK	DIODE	2		IC7003	NJM2534V	IC	1	
D45203	MA152K	DIODE	1		IC7004	XC62AP5002P	IC	1	
D45204-06	MA142WK	DIODE	3		IC7005	XC62DN5002P	IC	1	
D45301-04	MA147	DIODE	4		IC7006	TA75W01FU	IC	1	
D45401-03	MA128	DIODE	3		IC7007, 08	EL4089CS	IC	2	
D45404	MA142WK	DIODE	1		IC7009	TC7S08FU	IC	1	
D45405	MA128	DIODE	1		IC7201	EL2270CS	IC	1	
D45601, 02	MA142WK	DIODE	2		IC7203	M51272FP	IC	1	
FL3001	VLF1015	FILTER	1		IC7204	EL2170CS	IC	1	
FL3002	VLF0941C223	FILTER	1		IC7205	MM74HC221AM	IC	1	
FL3004	VLF1179	FILTER	1		IC7207	TA75W558FU	IC	1	
FL3201, 02	VLF1355	FILTER	2		IC7208	MC14053BD	IC	1	
FL3402, 03	VLF0941C223	FILTER	2		IC7209	XC62AP5002P	IC	1	
FL3701, 02	VLF0941C223	FILTER	2		IC7210	BA7655AF	IC	1	
FL3801	VLF0941C223	FILTER	1		IC7211	TA75W01FU	IC	1	
FL7001	VLF1354	FILTER	1		IC7212	TC7S32FU	IC	1	
FL7201, 02	VLF1355	FILTER	2		IC7213	TC7S08FU	IC	1	
FL45508, 09	VLF0941C223	FILTER	2		IC7401	MC14053BD	IC	1	
FL45601	EIR7GF012B	TRANSFORMER	1		IC7402	AD828AR	IC	1	
FL45701	VLF1069	FILTER	1		IC7403	EL4089CS	IC	1	
FL47001	VLF0941C223	FILTER	1		IC7404-06	NJM2534V	IC	3	
FL47201	VLF0941C223	FILTER	1		IC7407	TC7S00FU	IC	1	
FL47401	VLF0941C223	FILTER	1		IC7409	MC14053BD	IC	1	
IC3001	CXD2024AQ	IC	1		IC7410	UPD6458T611Y	IC	1	
IC3002	AD817AR	IC	1		IC7411	TC4W53FU	IC	1	
IC3003	XC62DN5002P	IC	1		IC7412	TC7SH04FU	IC	1	
IC3004	TC7W04FU	IC	1		IC7601	MB88344PFV	IC	1	
IC3005	TC4W53FU	IC	1		IC7602	XC62AP5002P	IC	1	
IC3006	XC62AP5002P	IC	1		IC7603, 04	EL4089CS	IC	2	
IC3009	MC14053BD	IC	1		IC7901	CXA1229M	IC	1	
IC3010	TC7W125FU	IC	1		IC7902	XC62AP5002P	IC	1	
IC3012	MC14053BD	IC	1		IC7903	EL2270CS	IC	1	
IC3015	XC62AP5002P	IC	1		IC7904	TC7W125FU	IC	1	
IC3016	MC14053BD	IC	1		IC45001	UPC52046C041	IC	1	
IC3201	UPD650138C16	IC	1		IC45002	XC62AP5002M	IC	1	
IC3203	SN74LS221NS	IC	1		IC45004	NJM78L09UA	IC	1	
IC3205, 06	NJM1496V	IC	2		IC45005	NJM78L09UA	IC	1	
IC3209	TC7W04FU	IC	1		IC45006	NJM78L09UA	IC	1	
IC3210	NJM319V	IC	1		IC45009	TA75W558FU	IC	1	
IC3212	TC7W04FU	IC	1		IC45011	TA75W558FU	IC	1	
IC3214, 15	NJM2534V	IC	2		IC45015	AN79L07M	IC	1	
IC3217	AN77L08M	IC	1		IC45016	AN78L07M	IC	1	
IC3218	MM74HC221AM	IC	1		IC45017, 18	AD7945BR	IC	2	
IC3401, 02	EL4583CS	IC	2		IC45019, 20	TA75W558FU	IC	2	
					IC45021	MC14053BD	IC	1	
					IC45022-2	TA75W558FU	IC	3	
					IC45101	AK5340VS	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC45102	TCVHC541FS	IC	1	
IC45201	XC62AP5002M	IC	1	
IC45202	AK4320VM	IC	1	
IC45203	TCVHC541FS	IC	1	
IC45204, O	TA75W558FU	IC	2	
IC45210	M51132L	IC	1	
IC45211	TA75W558FU	IC	1	
IC45212	BA5415A	IC	1	
IC45213	MC14053BD	IC	1	
IC45214	NJM062V	IC	1	
IC45301	TA75W558FU	IC	1	
IC45302	MC14053BD	IC	1	
IC45304	UPD4052BG	IC	1	
IC45305, O	TA75W558FU	IC	2	
IC45307, O	AQV212SX	IC	2	
IC45309	UPD4052BG	IC	1	
IC45310, 1	TA75W558FU	IC	2	
IC45312, 1	AQV212SX	IC	2	
IC45314	XC62AP5002M	IC	1	
IC45315	XC62DN5002M	IC	1	
IC45316	TA75W558FU	IC	1	
IC45317	MC14053BD	IC	1	
IC45318, 1	TA75W558FU	IC	2	
IC45320	UPD4052BG	IC	1	
IC45321	MC14053BD	IC	1	
IC45322	TA75W558FU	IC	1	
IC45323	UPD4052BG	IC	1	
IC45324	MC14053BD	IC	1	
IC45325	TA75W558FU	IC	1	
IC45410	UPD71055GB	IC	1	
IC45411	TC7SH04FU	IC	1	
IC45412, 1	UPD71055GB	IC	2	
IC45502	LVXC3245QSC	IC	1	
IC45504, O	TVHCT541FS	IC	2	
IC45506	TCVHC139FS	IC	1	
IC45601	TA75W558FU	IC	1	
IC45701	CXA1102M	IC	1	
IC45702	MC14053BD	IC	1	
IC45703	NJM062V	IC	1	
IC45704, O	TA75W558FU	IC	2	
IC47001, O	TCVHC541FS	IC	2	
IC47003	TVHCT541FS	IC	1	
IC47004, O	TCVHC541FS	IC	2	
IC47006	TC7SH04FU	IC	1	
IC47101	T16GH7AF1216	IC	1	
IC47102, O	K6256CLG7L	IC	2	
IC47104	AD1893JST	IC	1	
IC47105	TCVHC157FS	IC	1	
IC47201	MN53030VPR	IC	1	
IC47202	TMSD72274PH	IC	1	
IC47203, O	K6256CLG7L	IC	2	
IC47205, O	74AC374SJ	IC	2	
IC47207	74AC04SJ	IC	1	
IC47301	XC62AP5002P	IC	1	
IC47302	MC4044M	IC	1	
IC47303	74AC04SJ	IC	1	
IC47304	T74VHC74F	IC	1	
IC47401	TVHCT541FS	IC	1	
IC47402	HD151015SS	IC	1	
IC47403, O	TVHCT541FS	IC	2	
IC47405	TCVHC138FS	IC	1	
IC47501	TC7W74FU	IC	1	
IC47502	TC7SH04FU	IC	1	
IC47503	TC4W53FU	IC	1	
IC47504	TC7S08FU	IC	1	
L3001, O2	VLQ0318K101	C01L	100UH	2
L3003	VLQ0426J8R8	C01L	6.8UH	1
L3005	VLQ0318K470	C01L	47UH	1
L3007	VLQ0318K101	C01L	100UH	1
L3008	VLQ0426J180	C01L	18UH	1
L3009	VLQ0318K101	C01L	100UH	1
L3010	VLQ0426J220	C01L	22UH	1
L3013	VLQ0426J180	C01L	18UH	1
L3014	VLQ0426J220	C01L	22UH	1

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L3204	VLQ0319K101	G01L	100UH	1
L3208, 09	VLQ0319K101	G01L	100UH	2
L3212	VLQ0319K101	G01L	100UH	1
L3213	VLQ0426J470	G01L	47UH	1
L3403	VLQ0163J221	G01L	220UH	1
L3406	VLQ0319K101	G01L	100UH	1
L3408, 09	VLQ0319K101	G01L	100UH	2
L3410	VLQ0163J221	G01L	220UH	1
L3411	VLQ0133J471	G01L	470UH	1
L3501, 02	VLQ0319K101	G01L	100UH	2
L3602	VLQ0319K101	G01L	100UH	1
L3701	VLQ0163J3R3	G01L	3. 3UH	1
L3801-16	VLP0155	G01L		16
L7001, 02	VLQ0319K101	G01L	100UH	2
L7004	VLQ0426J680	G01L	68UH	1
L7005	VLQ0163J151	G01L	150UH	1
L7008	VLQ0426J680	G01L	68UH	1
L7010	VLQ0319K101	G01L	100UH	1
L7202	VLQ0319K101	G01L	100UH	1
L7203	VLQ0426J5R6	G01L	5. 6UH	1
L7204	VLQ0426J6R8	G01L	6. 8UH	1
L7205	VLQ0426J150	G01L	15UH	1
L7207	VLQ0319K101	G01L	100UH	1
L7208	VLQ0319K470	G01L	47UH	1
L7209	VLQ0163J181	G01L	180UH	1
L7210	VLQ0426J580	G01L	58UH	1
L7211	VLQ0319K101	G01L	100UH	1
L7212-14	VLQ0426J470	G01L	47UH	3
L7216	VLQ0319K101	G01L	100UH	1
L7222	VLQ0426J5R6	G01L	5. 6UH	1
L7401	VLQ0319K470	G01L	47UH	1
L7408	VLQ0426J680	G01L	68UH	1
L7409	VLQ0426J270	G01L	27UH	1
L7410	VLQ0319K470	G01L	47UH	1
L7602	VLQ0426J6R6	G01L	6. 8UH	1
L7606	VLQ0426J6R8	G01L	6. 8UH	1
L7809, 10	ERJ6GEYOR00	M. RESISTOR CH 1/10W	0	2
L45101	VLQ0163J100	G01L	10UH	1
L45201	VLQ0163J100	G01L	10UH	1
L45202, 03	VLQ0319K101	G01L	100UH	2
L45204	VLQ0409K330	G01L	33UH	1
L45601	VLQ0651K391	G01L	390UH	1
L45602	VLQ0423J472	G01L	4700UH	1
L47201	VLQ0426J1R8	G01L	1. 8UH	1
P7801	VJP3949A120H	CONNECTOR (MALE)		1
P7802	VJP3949A080H	CONNECTOR (MALE)		1
P7803-05	VJP3949A120H	CONNECTOR (MALE)		3
P7806, 07	VJP3927B006	CONNECTOR (MALE)		2
P7808	VJS3600F016K	CONNECTOR (FEMALE)		1
P7810	VJP3950A009	CONNECTOR (MALE)		1
P7811	VJP3949A120H	CONNECTOR (MALE)		1
P7812	VJP1233T	CONNECTOR (MALE)	6P	1
Q3001	XN4601	TRANSISTOR-RESISTOR		1
Q3002	2SB1114	TRANSISTOR		1
Q3003	2SC3930-B	TRANSISTOR		1
Q3004, 05	2SB1114	TRANSISTOR		2
Q3006	2SD1280-S	TRANSISTOR		1
Q3007	2SB1218A-R	TRANSISTOR		1
Q3008, 09	2SD1819A-R	TRANSISTOR		2
Q3010	2SA1532-B	TRANSISTOR		1
Q3011	2SD1819A-R	TRANSISTOR		1
Q3015	2SD1819A-R	TRANSISTOR		1
Q3016	2SB1114	TRANSISTOR		1
Q3019	2SD1819A-R	TRANSISTOR		1
Q3020, 21	2SB1218A-R	TRANSISTOR		2
Q3023	2SB1218A-R	TRANSISTOR		1
Q3024	2SD1819A-R	TRANSISTOR		1
Q3202	2SD1819A-R	TRANSISTOR		1
Q3205	2SD1819A-R	TRANSISTOR		1
Q3206	2SA1532-B	TRANSISTOR		1
Q3207	2SD1819A-R	TRANSISTOR		1
Q3209	2SD1819A-R	TRANSISTOR		1
Q3210	2SA1532-B	TRANSISTOR		1

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q3212	2SC3930-B	TRANSISTOR	1		Q45308	2SB710A-R	TRANSISTOR	1	
Q3213, 14	2SD1819A-R	TRANSISTOR	2		Q45309	2SD874A-R	TRANSISTOR	1	
Q3215, 16	2SB1218A-R	TRANSISTOR	2		Q45310	2SD802A-R	TRANSISTOR	1	
Q3401-03	2SD1819A-R	TRANSISTOR	3		Q45311	2SB766A-R	TRANSISTOR	1	
Q3404	2SC3931-C	TRANSISTOR	1		Q45313	2SD874A-R	TRANSISTOR	1	
Q3502	2SB1218A-R	TRANSISTOR	1		Q45314	2SB766A-R	TRANSISTOR	1	
Q3701	2SC3938-R	TRANSISTOR	1		Q45315	2SB710A-R	TRANSISTOR	1	
Q3702, 03	2SA1532-B	TRANSISTOR	2		Q45601	2SB779-R	TRANSISTOR	1	
Q3704	2SC3938-R	TRANSISTOR	1		Q45602	2SD874-R	TRANSISTOR	1	
Q7001	2SD1819A-R	TRANSISTOR	1		Q45603	2SD1819A-R	TRANSISTOR	1	
Q7002	2SA1532-B	TRANSISTOR	1		Q45604	2SB779-R	TRANSISTOR	1	
Q7003	2SD1819A-R	TRANSISTOR	1		Q45605	2SD874-R	TRANSISTOR	1	
Q7004	2SB1218A-R	TRANSISTOR	1		Q45606	2SD1819A-R	TRANSISTOR	1	
Q7005, 06	2SA1532-B	TRANSISTOR	2		Q45607-09	2SD1979	TRANSISTOR	3	
Q7007	2SD1819A-R	TRANSISTOR	1		Q45610	2SB1220-R	TRANSISTOR	1	
Q7008	2SA1532-B	TRANSISTOR	1		Q45611, 12	2SD1821-R	TRANSISTOR	2	
Q7009	2SC3930-B	TRANSISTOR	1						
Q7010	2SD1819A-R	TRANSISTOR	1		QR3001, 02	UN5213	TRANSISTOR-RESISTOR	2	
Q7011-13	2SB1218A-R	TRANSISTOR	3		QR3004, 05	UN5213	TRANSISTOR-RESISTOR	2	
Q7014	2SD1819A-R	TRANSISTOR	1		QR45001	UN5113	TRANSISTOR-RESISTOR	1	
Q7015	2SB1218A-R	TRANSISTOR	1		QR45002	UN5213	TRANSISTOR-RESISTOR	1	
Q7016	2SA1532-B	TRANSISTOR	1		QR45003	UN5113	TRANSISTOR-RESISTOR	1	
Q7017, 18	2SD1819A-R	TRANSISTOR	2		QR45004	UN5213	TRANSISTOR-RESISTOR	1	
Q7203	2SD1819A-R	TRANSISTOR	1		QR45201, 0	UN5213	TRANSISTOR-RESISTOR	2	
Q7204	2SA1532-B	TRANSISTOR	1		QR45203	UN5113	TRANSISTOR-RESISTOR	1	
Q7205, 06	2SD1819A-R	TRANSISTOR	2		QR45204	UN5213	TRANSISTOR-RESISTOR	1	
Q7207	2SA1532-B	TRANSISTOR	1		QR45205	UN5113	TRANSISTOR-RESISTOR	1	
Q7208	2SD1819A-R	TRANSISTOR	1		QR45206, 0	UN5213	TRANSISTOR-RESISTOR	2	
Q7209	2SC3930-B	TRANSISTOR	1		QR45208	XN1501	TRANSISTOR-RESISTOR	1	
Q7210	2SD1819A-R	TRANSISTOR	1		QR45209-1	UN5213	TRANSISTOR-RESISTOR	3	
Q7211, 12	2SB1218A-R	TRANSISTOR	2		QR45304	UN5213	TRANSISTOR-RESISTOR	1	
Q7213	2SD1819A-R	TRANSISTOR	1		QR45401, 0	UN5213	TRANSISTOR-RESISTOR	2	
Q7214	2SB1218A-R	TRANSISTOR	1		QR45601, 0	UN5113	TRANSISTOR-RESISTOR	2	
Q7215	2SC3930-B	TRANSISTOR	1		QR45603	UN5213	TRANSISTOR-RESISTOR	1	
Q7216	2SB1218A-R	TRANSISTOR	1		QR45604	UN5113	TRANSISTOR-RESISTOR	1	
Q7217, 18	2SC3930-B	TRANSISTOR	2		QR45605	UN5213	TRANSISTOR-RESISTOR	1	
Q7219, 20	2SB1218A-R	TRANSISTOR	2		QR45701	UN5113	TRANSISTOR-RESISTOR	1	
Q7221	2SC3930-B	TRANSISTOR	1		QR45702, 0	UN5213	TRANSISTOR-RESISTOR	2	
Q7222	2SD1819A-R	TRANSISTOR	1		QR45704	UN5113	TRANSISTOR-RESISTOR	1	
Q7223	XN6534	TRANSISTOR-RESISTOR	1						
Q7224	2SB1218A-R	TRANSISTOR	1		R3001	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
Q7225	2SK198-R	TRANSISTOR	1		R3002, 03	VRE0071E101	M. RESISTOR CH 1/16W 100	2	
Q7226	2SC3930-B	TRANSISTOR	1		R3004	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
Q7227	2SB1218A-R	TRANSISTOR	1		R3006, 07	VRE0071E102	M. RESISTOR CH 1/16W 1K	2	
Q7228	2SK198-R	TRANSISTOR	1		R3010	VRE0071E151	M. RESISTOR CH 1/16W 150	1	
Q7229	2SC3930-B	TRANSISTOR	1		R3012	VRE0071E101	M. RESISTOR CH 1/16W 100	1	
Q7230	2SD1819A-R	TRANSISTOR	1		R3013, 14	VRE0071E102	M. RESISTOR CH 1/16W 1K	2	
Q7401	2SB1218A-R	TRANSISTOR	1		R3016	VRE0071E680	M. RESISTOR CH 1/16W 68	1	
Q7402	2SD1819A-R	TRANSISTOR	1		R3024	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
Q7403	2SC3930-B	TRANSISTOR	1		R3026, 27	VRE0071E221	M. RESISTOR CH 1/16W 220	2	
Q7404	2SD1819A-R	TRANSISTOR	1		R3028, 29	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
Q7405-07	2SB1218A-R	TRANSISTOR	3		R3037	ERJ6GEYG201	M. RESISTOR CH 1/10W 200	1	
Q7408-10	2SA1532-B	TRANSISTOR	3		R3039	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
Q7411-13	2SB1218A-R	TRANSISTOR	3		R3042	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
Q7601, 02	2SA1532-B	TRANSISTOR	2		R3045	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
Q7603	2SD1819A-R	TRANSISTOR	1		R3046	VRE0071E471	M. RESISTOR CH 1/16W 470	1	
Q7605, 06	2SA1532-B	TRANSISTOR	2		R3048	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
Q7607	2SD1819A-R	TRANSISTOR	1		R3049	ERJ6GEYG201	M. RESISTOR CH 1/10W 200	1	
Q7609, 10	2SB1218A-R	TRANSISTOR	2		R3052	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
Q7901	2SA1532-B	TRANSISTOR	1		R3053	ERJ3GEYJ750	M. RESISTOR CH 1/16W 75	1	
Q7902	2SD1819A-R	TRANSISTOR	1		R3054	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
Q45001, 02	2SD1979	TRANSISTOR	2		R3056	VRE0071E473	M. RESISTOR CH 1/16W 47K	1	
Q45201, 02	2SD1979	TRANSISTOR	2		R3057	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
Q45203	2SD1819A-R	TRANSISTOR	1		R3062	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
Q45204	2SB1218A-R	TRANSISTOR	1		R3063	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
Q45205-08	2SD1979	TRANSISTOR	4		R3064	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
Q45209	2SK663-R	TRANSISTOR	1		R3069	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
Q45210, 11	2SB1218A-R	TRANSISTOR	2		R3071	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
Q45212-15	2SD1979	TRANSISTOR	4		R3072	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
Q45301	2SD874A-R	TRANSISTOR	1		R3073	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
Q45302	2SD802A-R	TRANSISTOR	1		R3074	VRE0071E562	M. RESISTOR CH 1/16W 5.6K	1	
Q45303	2SB766A-R	TRANSISTOR	1		R3076	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
Q45305	2SD874A-R	TRANSISTOR	1		R3077, 78	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	2	
Q45306	2SB1218A-R	TRANSISTOR	1		R3080, 81	VRE0071E473	M. RESISTOR CH 1/16W 47K	2	
Q45307	2SB766A-R	TRANSISTOR	1		R3083	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3085	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R3086	VRE0071E473	M. RESISTOR CH 1/16W 47K	1	
R3090	VRE0071E473	M. RESISTOR CH 1/16W 47K	1	
R3092	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R3104	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3105	VRE0071E183	M. RESISTOR CH 1/16W 18K	1	
R3106	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R3107	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
R3110	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	1	
R3113	VRE0071E682	M. RESISTOR CH 1/16W 6.8K	1	
R3114	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R3115	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R3116	VRE0071E101	M. RESISTOR CH 1/16W 100	1	
R3117	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	
R3118, 19	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	2	
R3120	VRE0071E123	M. RESISTOR CH 1/16W 12K	1	
R3121	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1	
R3122, 23	VRE0071E102	M. RESISTOR CH 1/16W 1K	2	
R3124	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R3126	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R3127-29	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	3	
R3139	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R3141	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R3142	VRE0071E101	M. RESISTOR CH 1/16W 100	1	
R3143	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3144	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R3150	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R3152	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R3153	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R3156	VRE0071E473	M. RESISTOR CH 1/16W 47K	1	
R3157	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R3161	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R3162	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
R3163	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3164, 65	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R3166	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R3169, 70	VRE0071E221	M. RESISTOR CH 1/16W 220	2	
R3171	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3172	VRE0071E473	M. RESISTOR CH 1/16W 47K	1	
R3173	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R3174	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R3175	VRE0071E821	M. RESISTOR CH 1/16W 820	1	
R3176	VRE0071E471	M. RESISTOR CH 1/16W 470	1	
R3177	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R3178	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R3182	VRE0034E102	M. RESISTOR CH 1/10W 1K	1	
R3184	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3201	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3202	VRE0071E153	M. RESISTOR CH 1/16W 15K	1	
R3211	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3212	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R3224	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3225	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R3226	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3227	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R3228	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R3229-31	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	3	
R3232	VRE0071E272	M. RESISTOR CH 1/16W 2.7K	1	
R3234	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R3235	VRE0071E331	M. RESISTOR CH 1/16W 33K	1	
R3236	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R3238	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3239	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R3242	VRE0071E101	M. RESISTOR CH 1/16W 100	1	
R3243	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R3244	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
R3245	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R3246	VRE0071E181	M. RESISTOR CH 1/16W 180	1	
R3247	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R3248	VRE0071E181	M. RESISTOR CH 1/16W 180	1	
R3249	VRE0071E682	M. RESISTOR CH 1/16W 6.8K	1	
R3250	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R3251	VRE0071E101	M. RESISTOR CH 1/16W 100	1	
R3252	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R3253	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3258	VRE0071E272	M. RESISTOR CH 1/16W 2.7K	1	
R3259	VRE0071E821	M. RESISTOR CH 1/16W 820	1	
R3261	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R3262	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R3267	VRE0071E101	M. RESISTOR CH 1/16W 100	1	
R3268	VRE0071E331	M. RESISTOR CH 1/16W 33K	1	
R3269	VRE0071E101	M. RESISTOR CH 1/16W 100	1	
R3270, 71	VRE0071E181	M. RESISTOR CH 1/16W 180	2	
R3272	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R3273	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R3274	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
R3275	VRE0071E682	M. RESISTOR CH 1/16W 6.8K	1	
R3276	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R3279	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R3281	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R3282	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R3283, 84	VRE0071E102	M. RESISTOR CH 1/16W 1K	2	
R3286	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R3289	VRE0071E101	M. RESISTOR CH 1/16W 100	1	
R3290	VRE0071E153	M. RESISTOR CH 1/16W 15K	1	
R3300	VRE0071E821	M. RESISTOR CH 1/16W 820	1	
R3301	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R3305	VRE0071E821	M. RESISTOR CH 1/16W 820	1	
R3306	VRE0071E471	M. RESISTOR CH 1/16W 470	1	
R3307	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
R3308	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R3309	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3310	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R3311	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R3312	VRE0071E101	M. RESISTOR CH 1/16W 100	1	
R3313	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R3315	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R3316	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R3317	VRE0071E101	M. RESISTOR CH 1/16W 100	1	
R3320	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R3322	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R3324	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R3325	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R3330	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3332	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R3333	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3334	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R3337, 38	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R3340, 41	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R3342, 43	VRE0071E101	M. RESISTOR CH 1/16W 100	2	
R3344	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R3345	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3349	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3351, 52	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R3354	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R3355	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3359	VRE0071E821	M. RESISTOR CH 1/16W 820	1	
R3364	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3365, 66	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R3367	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R3401	ERDS2TJ222	C. RESISTOR 1/4W 2.2K	1	
R3402	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
R3403	VRE0071E101	M. RESISTOR CH 1/16W 100	1	
R3404	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
R3408	ERJ3GEYJ823	M. RESISTOR CH 1/16W 82K	1	
R3410	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R3413	VRE0034E684	M. RESISTOR CH 1/10W 680K	1	
R3415	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
R3416	ERJ3GEYJ823	M. RESISTOR CH 1/16W 82K	1	
R3418	VRE0034E684	M. RESISTOR CH 1/10W 680K	1	
R3429	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R3432	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R3433, 34	VRE0071E103	M. RESISTOR CH 1/16W 10K	2	
R3435	VRE0071E471	M. RESISTOR CH 1/16W 470	1	
R3436, 37	VRE0071E101	M. RESISTOR CH 1/16W 100	2	
R3438	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1	
R3439, 40	VRE0071E103	M. RESISTOR CH 1/16W 10K	2	
R3441	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R3442	VRE0071E272	M. RESISTOR CH 1/16W 2.7K	1	
R3443	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3444, 45	VRE0071E103	M. RESISTOR CH 1/16W 10K	2		R3719	VRE0071E153	M. RESISTOR CH 1/16W 15K	1	
R3446	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1		R3720	ERJ3GEYJ881	M. RESISTOR CH 1/16W 680	1	
R3447	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R3725	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R3448	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1		R3726	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R3449	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R3729	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R3455	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1		R3731	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3458	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R3732	VRE0071E273	M. RESISTOR CH 1/16W 27K	1	
R3459	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1		R3733	VRE0071E101	M. RESISTOR CH 1/16W 100	1	
R3460	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R3735, 36	VRE0071E103	M. RESISTOR CH 1/16W 10K	2	
R3464	VRE0071E223	M. RESISTOR CH 1/16W 22K	1		R3739	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3470-72	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	3		R3740-42	VRE0071E103	M. RESISTOR CH 1/16W 10K	3	
R3473	VRE0071E221	M. RESISTOR CH 1/16W 220	1		R3743	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3474	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	1		R3745	VRE0071E101	M. RESISTOR CH 1/16W 100	1	
R3475	ERJ3GEYJ684	M. RESISTOR CH 1/16W 680K	1		R3750, 51	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	2	
R3476-78	VRE0071E103	M. RESISTOR CH 1/16W 10K	3		R3752	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3479	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R3758, 59	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R3480	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1		R3760	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R3481	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R3802	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R3485	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R3806	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3486	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1		R3808-15	VRE0071E103	M. RESISTOR CH 1/16W 10K	8	
R3488	VRE0071E101	M. RESISTOR CH 1/16W 100	1		R3824	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R3489	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R3829-31	VRE0071E101	M. RESISTOR CH 1/16W 100	3	
R3490	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1		R3834	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3491	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1		R3835	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R3501	ERJ3GEYJ750	M. RESISTOR CH 1/16W 75	1		R3836-40	VRE0071E101	M. RESISTOR CH 1/16W 100	5	
R3502	VRE0071E153	M. RESISTOR CH 1/16W 15K	1		R3842, 43	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R3505	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R3844-46	VRE0071E103	M. RESISTOR CH 1/16W 10K	3	
R3507	VRE0071E821	M. RESISTOR CH 1/16W 820	1		R3850	VRE0071E101	M. RESISTOR CH 1/16W 100	1	
R3508	VRE0071E221	M. RESISTOR CH 1/16W 220	1		R3851	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3511	ERJ3GEYJ750	M. RESISTOR CH 1/16W 75	1		R3852	VLP0155	COIL	1	
R3512	VRE0071E123	M. RESISTOR CH 1/16W 12K	1		R3853	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3514	VRE0071E682	M. RESISTOR CH 1/16W 6.8K	1		R3854, 55	VRE0071E101	M. RESISTOR CH 1/16W 100	2	
R3515	VRE006607103	M. RESISTOR CH 1/10W 10K	1		R3856, 57	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R3516	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R7002	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R3521	VRE0071E682	M. RESISTOR CH 1/16W 6.8K	1		R7003	VRE0071E272	M. RESISTOR CH 1/16W 2.7K	1	
R3529	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1		R7004	VRE0071E682	M. RESISTOR CH 1/16W 6.8K	1	
R3530	VRE0071E473	M. RESISTOR CH 1/16W 47K	1		R7005	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R3531	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R7006	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R3540	VRE0071E102	M. RESISTOR CH 1/16W 1K	1		R7007	VRE0071E221	M. RESISTOR CH 1/16W 220	1	
R3541	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1		R7008	VRE0071E331	M. RESISTOR CH 1/16W 330	1	
R3542	VRE0071E331	M. RESISTOR CH 1/16W 330	1		R7009	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R3543	VRE0071E181	M. RESISTOR CH 1/16W 180	1		R7010	VRE0071E101	M. RESISTOR CH 1/16W 100	1	
R3545	ERJ3GEYJ560	M. RESISTOR CH 1/16W 56	1		R7011	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3546	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R7012	ERJ3GEYJ124	M. RESISTOR CH 1/16W 120K	1	
R3550, 51	VRE0071E102	M. RESISTOR CH 1/16W 1K	2		R7013	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R3552	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1		R7016	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R3553	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R7017, 18	VRE0071E102	M. RESISTOR CH 1/16W 1K	2	
R3554	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1		R7019	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R3555	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1		R7021	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R3601	ERJ3GEYJ750	M. RESISTOR CH 1/16W 75	1		R7022	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R3602	VRE0071E123	M. RESISTOR CH 1/16W 12K	1		R7024	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R3604	VRE0071E221	M. RESISTOR CH 1/16W 220	1		R7025	VRE0071E471	M. RESISTOR CH 1/16W 470	1	
R3605	VRE0071E682	M. RESISTOR CH 1/16W 6.8K	1		R7026	VRE0071E101	M. RESISTOR CH 1/16W 100	1	
R3606	VRE0071E821	M. RESISTOR CH 1/16W 820	1		R7027	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R3608	VRE006607103	M. RESISTOR CH 1/10W 10K	1		R7028	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R3609	VRE0071E682	M. RESISTOR CH 1/16W 6.8K	1		R7029	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1	
R3612	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R7031	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1	
R3616	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1		R7032	VRE0071E473	M. RESISTOR CH 1/16W 47K	1	
R3624	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R7033	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
R3701	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R7036	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R3702	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1		R7037	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R3703	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1		R7038	VRE0071E821	M. RESISTOR CH 1/16W 820	1	
R3704	VRE0071E682	M. RESISTOR CH 1/16W 6.8K	1		R7040	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R3705	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1		R7041	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R3706	VRE0071E102	M. RESISTOR CH 1/16W 1K	1		R7044	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R3707	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1		R7045	VRE0071E153	M. RESISTOR CH 1/16W 15K	1	
R3708, 09	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	2		R7046	VRE0071E221	M. RESISTOR CH 1/16W 220	1	
R3710	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1		R7048	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R3711	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1		R7049	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R3712	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1		R7054	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R3714	VRE0071E682	M. RESISTOR CH 1/16W 6.8K	1		R7055	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3715	VRE0071E223	M. RESISTOR CH 1/16W 22K	1		R7057, 58	VRE0071E102	M. RESISTOR CH 1/16W 1K	2	
R3716	VRE0071E682	M. RESISTOR CH 1/16W 6.8K	1		R7059	VRE0071E221	M. RESISTOR CH 1/16W 220	1	
R3717	VRE0071E223	M. RESISTOR CH 1/16W 22K	1		R7060	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R3718	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1		R7061	VRE0071E221	M. RESISTOR CH 1/16W 220	1	

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7062	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1		R7246	VRE0071E471	M. RESISTOR CH 1/16W 470	1	
R7063	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1		R7247, 48	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	2	
R7064	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1		R7249	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7065	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R7250	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7067	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R7252	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7068	VRE0071E822	M. RESISTOR CH 1/16W 8.2K	1		R7254	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R7069	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R7255	VRE0071E471	M. RESISTOR CH 1/16W 470	1	
R7070	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R7257	VRE0071E471	M. RESISTOR CH 1/16W 470	1	
R7071	VRE0071E273	M. RESISTOR CH 1/16W 27K	1		R7258	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
R7072	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R7259, 60	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	2	
R7073	VRE0071E181	M. RESISTOR CH 1/16W 180	1		R7261	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R7075	ERJ3GEYJ124	M. RESISTOR CH 1/16W 120K	1		R7262	VRE0071E181	M. RESISTOR CH 1/16W 180	1	
R7076	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R7263	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7078	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R7264	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7079	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R7265	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R7080, 81	VRE0071E331	M. RESISTOR CH 1/16W 330	2		R7266	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7082	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1		R7267	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7083, 84	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2		R7268	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R7085	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1		R7269, 70	VRE0071E102	M. RESISTOR CH 1/16W 1K	2	
R7086	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R7271	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R7087, 88	VRE0071E331	M. RESISTOR CH 1/16W 330	2		R7272	VRE0071E272	M. RESISTOR CH 1/16W 2.7K	1	
R7089	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1		R7273	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R7090	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R7274	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7092	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R7275	VRE0071E471	M. RESISTOR CH 1/16W 470	1	
R7093	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R7277	VRE0071E821	M. RESISTOR CH 1/16W 820	1	
R7094, 95	VRE0071E102	M. RESISTOR CH 1/16W 1K	2		R7278	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
R7096, 97	VRE0071E221	M. RESISTOR CH 1/16W 220	2		R7279	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R7098	VRE0071E223	M. RESISTOR CH 1/16W 22K	1		R7280, 81	VRE0071E102	M. RESISTOR CH 1/16W 1K	2	
R7099	VRE0071E473	M. RESISTOR CH 1/16W 47K	1		R7282	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R7100	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R7283	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7101	VRE0071E102	M. RESISTOR CH 1/16W 1K	1		R7284, 85	VRE0071E223	M. RESISTOR CH 1/16W 22K	2	
R7103	VRE0071E821	M. RESISTOR CH 1/16W 820	1		R7286	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R7104	VRE0071E331	M. RESISTOR CH 1/16W 330	1		R7287	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R7108	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R7290	VRE0071E822	M. RESISTOR CH 1/16W 8.2K	1	
R7109	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R7291	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R7110	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R7292	ERJ3GEYJ154	M. RESISTOR CH 1/16W 150K	1	
R7201	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1		R7293	VRE0071E471	M. RESISTOR CH 1/16W 470	1	
R7203	VRE0071E101	M. RESISTOR CH 1/16W 100	1		R7294	ERJ3GEYJ154	M. RESISTOR CH 1/16W 150K	1	
R7204	ERJ3GEYG301	M. RESISTOR CH 1/16W 300	1		R7296	VRE0071E471	M. RESISTOR CH 1/16W 470	1	
R7205	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R7297	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7206	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1		R7299	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R7207	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1		R7300	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7209	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R7301, 02	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	2	
R7210	VRE0071E331	M. RESISTOR CH 1/16W 330	1		R7303	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
R7211	VRE0071E471	M. RESISTOR CH 1/16W 470	1		R7304	VRE0071E582	M. RESISTOR CH 1/16W 5.8K	1	
R7213	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1		R7305	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1	
R7214	VRE006807103	M. RESISTOR CH 1/10W 10K	1		R7306	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7215	VRE0071E102	M. RESISTOR CH 1/16W 1K	1		R7307	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7216	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1		R7308	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
R7217	ERJ3GEYG301	M. RESISTOR CH 1/16W 300	1		R7309	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7218	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R7310	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R7219	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1		R7311	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R7221	VRE0071E821	M. RESISTOR CH 1/16W 820	1		R7312	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
R7222	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R7314	VRE0071E582	M. RESISTOR CH 1/16W 5.8K	1	
R7223	VRE0071E102	M. RESISTOR CH 1/16W 1K	1		R7315	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R7224	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R7316	VRE0071E221	M. RESISTOR CH 1/16W 220	1	
R7225	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1		R7317	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R7226	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1		R7318	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7227	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R7319	VRE0071E181	M. RESISTOR CH 1/16W 180	1	
R7228	VRE0071E102	M. RESISTOR CH 1/16W 1K	1		R7320	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R7229	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R7321	VRE0071E471	M. RESISTOR CH 1/16W 470	1	
R7230	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1		R7322	VRE0071E181	M. RESISTOR CH 1/16W 180	1	
R7231	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R7323	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R7232	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1		R7324	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R7233	VRE0071E331	M. RESISTOR CH 1/16W 330	1		R7326	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R7234	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R7327	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R7235	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1		R7329	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R7237	VRE0071E102	M. RESISTOR CH 1/16W 1K	1		R7330	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R7238	VRE0071E821	M. RESISTOR CH 1/16W 820	1		R7331	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R7240	VRE0071E882	M. RESISTOR CH 1/16W 6.8K	1		R7333	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7241	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1		R7335	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7242	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R7336	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R7243	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R7337	VRE0071E473	M. RESISTOR CH 1/16W 47K	1	
R7244	VRE0071E102	M. RESISTOR CH 1/16W 1K	1		R7338	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R7245	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1		R7340	VRE0071E473	M. RESISTOR CH 1/16W 47K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R7341, 42	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	2		R7451	VRE0071E101	M. RESISTOR CH 1/16W 100	1	
R7344	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R7452	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R7346	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R7453	VRE0071E471	M. RESISTOR CH 1/16W 470	1	
R7347	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1		R7455	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
R7348	VRE0071E153	M. RESISTOR CH 1/16W 15K	1		R7456	VRE0071E473	M. RESISTOR CH 1/16W 47K	1	
R7349	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1		R7457	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
R7350	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R7458	VRE0034E750	M. RESISTOR CH 1/10W 75	1	
R7352-54	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3		R7459	VRE0071E473	M. RESISTOR CH 1/16W 47K	1	
R7356	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R7460	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R7357	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1		R7461-63	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	3	
R7358	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R7465	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R7360	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1		R7466	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R7361	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R7467, 68	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	2	
R7363	VRE006610102	M. RESISTOR CH 1/10W 1K	1		R7469	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R7364	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R7470	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7365	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R7474-76	VRE0071E103	M. RESISTOR CH 1/16W 10K	3	
R7366	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	1		R7477	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R7367-69	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	3		R7478	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R7370	VRE0071E102	M. RESISTOR CH 1/16W 1K	1		R7479	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7371	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R7481	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R7372	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1		R7482	VRE0071E101	M. RESISTOR CH 1/16W 100	1	
R7373	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R7483	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7374	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1		R7484	VRE0071E101	M. RESISTOR CH 1/16W 100	1	
R7375	VRE0071E183	M. RESISTOR CH 1/16W 18K	1		R7485	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R7376	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	1		R7488	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R7377	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1		R7490	VRE0071E821	M. RESISTOR CH 1/16W 820	1	
R7378	VRE0071E223	M. RESISTOR CH 1/16W 22K	1		R7491	VRE0071E221	M. RESISTOR CH 1/16W 220	1	
R7379	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R7492	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	
R7381	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R7494	VRE0071E101	M. RESISTOR CH 1/16W 100	1	
R7382	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R7496	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	
R7385	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R7498	VRE0071E101	M. RESISTOR CH 1/16W 100	1	
R7386	VRE0071E102	M. RESISTOR CH 1/16W 1K	1		R7500	VRE0071E473	M. RESISTOR CH 1/16W 47K	1	
R7388, 89	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	2		R7501	VRE0071E273	M. RESISTOR CH 1/16W 27K	1	
R7390	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R7504	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7391	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R7601	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	
R7392	VRE0071E331	M. RESISTOR CH 1/16W 330	1		R7602	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7393	VRE0071E102	M. RESISTOR CH 1/16W 1K	1		R7603	VRE0071E821	M. RESISTOR CH 1/16W 820	1	
R7396	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1		R7604	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7398	VRE0071E821	M. RESISTOR CH 1/16W 820	1		R7605	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	
R7399	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R7606	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7401, 02	VRE0071E331	M. RESISTOR CH 1/16W 330	2		R7607	VRE0071E181	M. RESISTOR CH 1/16W 180	1	
R7403	VRE0071E102	M. RESISTOR CH 1/16W 1K	1		R7609	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	1	
R7404	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R7610	VRE0071E471	M. RESISTOR CH 1/16W 470	1	
R7406	VRE0071E101	M. RESISTOR CH 1/16W 100	1		R7611	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7407, 08	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	2		R7620	VRE0034E750	M. RESISTOR CH 1/10W 75	1	
R7409	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R7622	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	
R7411	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R7623	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7412	VRE0071E471	M. RESISTOR CH 1/16W 470	1		R7624	VRE0071E821	M. RESISTOR CH 1/16W 820	1	
R7413	VRE0071E331	M. RESISTOR CH 1/16W 330	1		R7625	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7414	VRE0071E221	M. RESISTOR CH 1/16W 220	1		R7626	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	
R7415	VRE0071E101	M. RESISTOR CH 1/16W 100	1		R7627	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7416	VRE0071E471	M. RESISTOR CH 1/16W 470	1		R7628	VRE0071E181	M. RESISTOR CH 1/16W 180	1	
R7420	VRE0034E750	M. RESISTOR CH 1/10W 75	1		R7630	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	1	
R7423-25	VRE0071E102	M. RESISTOR CH 1/16W 1K	3		R7631	VRE0071E471	M. RESISTOR CH 1/16W 470	1	
R7426	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	1		R7632	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7428	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R7641	VRE0034E750	M. RESISTOR CH 1/10W 75	1	
R7429	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	1		R7643-45	VRE0071E103	M. RESISTOR CH 1/16W 10K	3	
R7430	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R7646-48	VRE0071E101	M. RESISTOR CH 1/16W 100	3	
R7431, 32	VRE0071E102	M. RESISTOR CH 1/16W 1K	2		R7649	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	1	
R7433	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1		R7652, 53	VRE0071E331	M. RESISTOR CH 1/16W 330	2	
R7434	VRE0071E331	M. RESISTOR CH 1/16W 330	1		R7657, 58	VRE0071E331	M. RESISTOR CH 1/16W 330	2	
R7435	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R7660	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	1	
R7436	VRE0071E101	M. RESISTOR CH 1/16W 100	1		R7801	ERJ8GJYJ1R0	M. RESISTOR CH 1/8W 1	1	
R7437	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1		R7802-07	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	6	
R7438	VRE0071E562	M. RESISTOR CH 1/16W 5.6K	1		R7901	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7439	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1		R7902	VRE0071E273	M. RESISTOR CH 1/16W 27K	1	
R7440	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R7903	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7441	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1		R7905	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R7442	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R7906	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	1	
R7443	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1		R7908	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R7444	VRE0071E223	M. RESISTOR CH 1/16W 22K	1		R7909	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7445	VRE0071E473	M. RESISTOR CH 1/16W 47K	1		R7910	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R7446, 47	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	2		R7911	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	
R7449	VRE0071E331	M. RESISTOR CH 1/16W 330	1		R7912, 13	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R7450	VRE0071E221	M. RESISTOR CH 1/16W 220	1		R7915	VRE0071E471	M. RESISTOR CH 1/16W 470	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7916, 17	VRE0071E102	M. RESISTOR CH 1/16W 1K	2	
R7918	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R7919	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7920	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R7921	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R7922	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R7924	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R7925	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R7926	VRE0071E682	M. RESISTOR CH 1/16W 6.8K	1	
R7927	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R45001	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R45002	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1	
R45003	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R45004	VRE0071E153	M. RESISTOR CH 1/16W 15K	1	
R45005	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R45006	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R45007, 08	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	2	
R45009, 10	VRE0071E103	M. RESISTOR CH 1/16W 10K	2	
R45011	VRE0071E331	M. RESISTOR CH 1/16W 330	1	
R45012	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R45013	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	1	
R45014-16	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	3	
R45017	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	1	
R45018	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R45019, 20	ERJ12YJ621	M. RESISTOR CH 1/2W 620	2	
R45021	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1	
R45022	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R45023	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R45024	VRE0071E153	M. RESISTOR CH 1/16W 15K	1	
R45025-27	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	3	
R45028	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R45029	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R45030	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R45031	VRE0071E331	M. RESISTOR CH 1/16W 330	1	
R45032	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R45040	VRE0071E562	M. RESISTOR CH 1/16W 5.6K	1	
R45045	VRE0071E332	M. RESISTOR CH 1/16W 3.3K	1	
R45047	VRE0071E562	M. RESISTOR CH 1/16W 5.6K	1	
R45048	VRE0071E332	M. RESISTOR CH 1/16W 3.3K	1	
R45050	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R45052	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R45055, 56	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R45057	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R45058, 59	VRE0071E102	M. RESISTOR CH 1/16W 1K	2	
R45060	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R45061	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R45065-67	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R45068	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R45069	VRE0071E682	M. RESISTOR CH 1/16W 6.8K	1	
R45070, 71	VRE0071E103	M. RESISTOR CH 1/16W 10K	2	
R45072	VRE0071E682	M. RESISTOR CH 1/16W 6.8K	1	
R45073	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R45074	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R45075	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R45076	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R45077	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R45078	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R45079	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R45080	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R45081	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R45082	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45084	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45086	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R45087, 88	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R45104-06	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R45108-12	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	5	
R45201	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45202	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R45203	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R45204	VRE0071E273	M. RESISTOR CH 1/16W 27K	1	
R45205	VRE0071E473	M. RESISTOR CH 1/16W 47K	1	
R45206	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R45207, 08	VRE0071E473	M. RESISTOR CH 1/16W 47K	2	
R45210, 11	VRE0071E473	M. RESISTOR CH 1/16W 47K	2	
R45212	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R45213	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R45214	VRE0071E273	M. RESISTOR CH 1/16W 27K	1	
R45215	VRE0071E473	M. RESISTOR CH 1/16W 47K	1	
R45216	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R45217	VRE0071E473	M. RESISTOR CH 1/16W 47K	1	
R45218-22	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	5	
R45223	VRE0071E473	M. RESISTOR CH 1/16W 47K	1	
R45224	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R45225	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R45226	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R45227	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
R45228	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R45229	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R45230	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R45231	VRE0071E123	M. RESISTOR CH 1/16W 12K	1	
R45232	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R45233	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R45234	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R45235	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
R45236	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R45237	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R45238	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R45239	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R45240	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R45241	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R45242	VRE0071E123	M. RESISTOR CH 1/16W 12K	1	
R45243	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R45244	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R45245	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R45246	VRE0071E473	M. RESISTOR CH 1/16W 47K	1	
R45247	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R45248-51	VRE0071E103	M. RESISTOR CH 1/16W 10K	4	
R45252	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R45253	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R45254	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R45255-57	VRE0071E473	M. RESISTOR CH 1/16W 47K	3	
R45258, 59	VRE0071E102	M. RESISTOR CH 1/16W 1K	2	
R45260	VRE0071E682	M. RESISTOR CH 1/16W 6.8K	1	
R45261	VRE0071E562	M. RESISTOR CH 1/16W 5.6K	1	
R45262	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R45263	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R45264	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R45265, 66	VRE0071E102	M. RESISTOR CH 1/16W 1K	2	
R45267	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R45268, 69	ERJ6GEYG221	M. RESISTOR CH 1/10W 220	2	
R45270, 71	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	2	
R45272-76	VRE0071E102	M. RESISTOR CH 1/16W 1K	5	
R45277	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R45278, 79	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	2	
R45280	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R45281	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R45282-84	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R45285, 86	VRE0071E473	M. RESISTOR CH 1/16W 47K	2	
R45289	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R45290	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R45291	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R45293	VRE0071E272	M. RESISTOR CH 1/16W 2.7K	1	
R45294	VRE0071E473	M. RESISTOR CH 1/16W 47K	1	
R45295	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45297	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	1	
R45298, 99	VRE0071E473	M. RESISTOR CH 1/16W 47K	2	
R45301	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R45302	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K	1	
R45303	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R45305	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R45306	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R45307	ERJ14YJ100	M. RESISTOR CH 1/4W 10	1	
R45308	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	1	
R45310	ERJ14YJ220	M. RESISTOR CH 1/4W 22	1	
R45312	VRE0071E301	M. RESISTOR CH 1/16W 300	1	
R45313	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R45314	ERJ14YJ100	M. RESISTOR CH 1/4W 10	1	
R45319	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R45320	VRE0071E272	M. RESISTOR CH 1/16W 2.7K	1	
R45321	VRE0071E123	M. RESISTOR CH 1/16W 12K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R45322	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1		R45422	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45323	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K	1		R45425	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R45325	VRE0071E682	M. RESISTOR CH 1/16W 6.8K	1		R45426	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45326	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R45429	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45327	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1		R45430, 31	VRE0071E103	M. RESISTOR CH 1/16W 10K	2	
R45329, 30	VRE0071E153	M. RESISTOR CH 1/16W 15K	2		R45433	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45331	VRE0071E150	M. RESISTOR CH 1/16W 15	1		R45434	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R45333	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R45436	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45334	VRE0071E153	M. RESISTOR CH 1/16W 15K	1		R45437	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R45335	VRE0071E102	M. RESISTOR CH 1/16W 1K	1		R45439	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45336	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1		R45442	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45337	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1		R45502, 03	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R45339	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K	1		R45504, 05	VRE0071E103	M. RESISTOR CH 1/16W 10K	2	
R45340	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1		R45507-10	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	4	
R45341	ERJ14YJ100	M. RESISTOR CH 1/4W 10	1		R45511, 12	VRE0071E103	M. RESISTOR CH 1/16W 10K	2	
R45342	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1		R45513, 14	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R45343	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	1		R45516	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R45344	ERJ14YJ220	M. RESISTOR CH 1/4W 22	1		R45517	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45345	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R45601	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R45346	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1		R45602	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R45347	ERJ14YJ100	M. RESISTOR CH 1/4W 10	1		R45603	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R45348	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1		R45604	VRE0071E473	M. RESISTOR CH 1/16W 47K	1	
R45349	VRE0071E473	M. RESISTOR CH 1/16W 47K	1		R45605	ERJ3GEYJ390	M. RESISTOR CH 1/16W 39	1	
R45350	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R45606	VRE0071E183	M. RESISTOR CH 1/16W 18K	1	
R45351	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1		R45607	ERJ8GCGYJ1R0	M. RESISTOR CH 1/8W 1	1	
R45352	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1		R45608	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R45353	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R45609	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R45354	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K	1		R45610	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R45355	VRE0071E153	M. RESISTOR CH 1/16W 15K	1		R45611	VRE0071E473	M. RESISTOR CH 1/16W 47K	1	
R45356	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R45612	ERJ3GEYJ390	M. RESISTOR CH 1/16W 39	1	
R45357, 58	VRE0071E102	M. RESISTOR CH 1/16W 1K	2		R45613	VRE0071E183	M. RESISTOR CH 1/16W 18K	1	
R45359	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K	1		R45614	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R45360	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R45617	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45362	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R45618	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R45363	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1		R45619, 20	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	2	
R45364	ERJ14YJ100	M. RESISTOR CH 1/4W 10	1		R45621	VRE0071E473	M. RESISTOR CH 1/16W 47K	1	
R45365	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	1		R45622	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R45367	ERJ14YJ220	M. RESISTOR CH 1/4W 22	1		R45623	VRE0071E471	M. RESISTOR CH 1/16W 470	1	
R45369	VRE0071E301	M. RESISTOR CH 1/16W 300	1		R45624	ERJ3GEYJ124	M. RESISTOR CH 1/16W 120K	1	
R45370	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1		R45625	VRE0071E821	M. RESISTOR CH 1/16W 820	1	
R45372	ERJ14YJ100	M. RESISTOR CH 1/4W 10	1		R45626	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R45377	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1		R45627	VRE0071E221	M. RESISTOR CH 1/16W 220	1	
R45378	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1		R45628	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45379	VRE0071E272	M. RESISTOR CH 1/16W 2.7K	1		R45629	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R45380	VRE0071E123	M. RESISTOR CH 1/16W 12K	1		R45632	VRE0071E822	M. RESISTOR CH 1/16W 8.2K	1	
R45381	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K	1		R45633	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R45383	VRE0071E682	M. RESISTOR CH 1/16W 6.8K	1		R45634	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
R45384	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1		R45635	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R45385	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R45636	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R45387, 88	VRE0071E153	M. RESISTOR CH 1/16W 15K	2		R45637	ERJ6GEYJ201	M. RESISTOR CH 1/10W 200	1	
R45389	VRE0071E150	M. RESISTOR CH 1/16W 15	1		R45638	ERJ8GCGYJ1R0	M. RESISTOR CH 1/8W 1	1	
R45391	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R45639	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	
R45392	VRE0071E153	M. RESISTOR CH 1/16W 15K	1		R45640	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45393	VRE0071E102	M. RESISTOR CH 1/16W 1K	1		R45701	VRE0071E433	M. RESISTOR CH 1/16W 43K	1	
R45394	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1		R45702	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R45395	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1		R45703	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R45397	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K	1		R45704	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R45398	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1		R45705	VRE0071E101	M. RESISTOR CH 1/16W 100	1	
R45399	ERJ14YJ100	M. RESISTOR CH 1/4W 10	1		R45706, 07	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	2	
R45400	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1		R45708	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R45401	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	1		R45709	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R45402	ERJ14YJ220	M. RESISTOR CH 1/4W 22	1		R45710	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
R45403	VRE0071E103	M. RESISTOR CH 1/16W 10K	1		R45711	VRE0071E273	M. RESISTOR CH 1/16W 27K	1	
R45404	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1		R45712	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R45405	ERJ14YJ100	M. RESISTOR CH 1/4W 10	1		R45713	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R45406	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R45714	VRE0071E471	M. RESISTOR CH 1/16W 470	1	
R45407	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1		R45716	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R45408	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K	1		R45717	VRE0071E471	M. RESISTOR CH 1/16W 470	1	
R45409	VRE0071E153	M. RESISTOR CH 1/16W 15K	1		R45720	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45410	VRE0071E102	M. RESISTOR CH 1/16W 1K	1		R45722	VRE0071E123	M. RESISTOR CH 1/16W 12K	1	
R45413, 14	VRE0071E103	M. RESISTOR CH 1/16W 10K	2		R45724	VRE0071E332	M. RESISTOR CH 1/16W 3.3K	1	
R45415	VRE0071E221	M. RESISTOR CH 1/16W 220	1		R45725	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R45417, 18	VRE0071E103	M. RESISTOR CH 1/16W 10K	2		R45727	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45419	VRE0071E221	M. RESISTOR CH 1/16W 220	1		R45728	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R45421	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1		R45729	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R45730	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1
R45801-03	VRE0071E473	M. RESISTOR CH 1/16W 47K	47K	3
R45804-07	VRE0071E102	M. RESISTOR CH 1/16W	1K	4
R47001	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1
R47002-11	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	10
R47012-14	VRE0071E331	M. RESISTOR CH 1/16W	330	3
R47015	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	1
R47018	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1
R47017-19	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	3
R47020	VRE0071E331	M. RESISTOR CH 1/16W	330	1
R47021	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1
R47022	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	1
R47023	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1
R47024	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	1
R47025	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1
R47026	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	1
R47029	VRE0071E331	M. RESISTOR CH 1/16W	330	1
R47030, 31	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	2
R47101-04	VRE0071E331	M. RESISTOR CH 1/16W	330	4
R47105	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1
R47106	VRE0071E331	M. RESISTOR CH 1/16W	330	1
R47107-09	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	3
R47111, 12	VRE0071E331	M. RESISTOR CH 1/16W	330	2
R47113	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1
R47114	VRE0071E331	M. RESISTOR CH 1/16W	330	1
R47201	VRE0071E103	M. RESISTOR CH 1/16W	10K	1
R47203-05	VRE0071E331	M. RESISTOR CH 1/16W	330	3
R47207	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1
R47208, 09	VRE0071E331	M. RESISTOR CH 1/16W	330	2
R47211	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1
R47301	ERJ3GEYGI52	M. RESISTOR CH 1/16W 1.5K	1.5K	1
R47302	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	3.9K	1
R47303	VRE0071E102	M. RESISTOR CH 1/16W	1K	1
R47304	VRE0071E101	M. RESISTOR CH 1/16W	100	1
R47305, 06	VRE0071E103	M. RESISTOR CH 1/16W	10K	2
R47401-04	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	4
R47405	VRE0071E331	M. RESISTOR CH 1/16W	330	1
R47406-24	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	19
R47425-40	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	3.3K	16
R47441	VRE0071E331	M. RESISTOR CH 1/16W	330	1
R47442-44	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	3.3K	3
R47445	VRE0071E331	M. RESISTOR CH 1/16W	330	1
R47502	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1
RY45201	VSY2176	RELAY		1
SW45001, 0	VSS0126	SWITCH		2
T45801, 02	VLT0729	TRANSFORMER		2
TG3001	EYF6CU	TEST POINT		1
TG3201	EYF6CU	TEST POINT		1
TG3501	EYF6CU	TEST POINT		1
TG7001	EYF6CU	TEST POINT		1
TG45001	EYF6CU	TEST POINT		1
TG45202	VJR0098	TEST POINT		1
TG45301	EYF6CU	TEST POINT		1
TG45701	EYF6CU	TEST POINT		1
TH7201	ERT02FHL102S	THERMISTOR	1K	1
TP3001, 02	EYF6CU	TEST POINT		2
TP3105, 06	EYF6CU	TEST POINT		2
TP3201-07	EYF6CU	TEST POINT		7
TP3407, 08	EYF6CU	TEST POINT		2
TP3501, 02	EYF6CU	TEST POINT		2
TP3801	EYF6CU	TEST POINT		1
TP3701-04	EYF6CU	TEST POINT		4
TP3801-08	EYF6CU	TEST POINT		8
TP7004	EYF6CU	TEST POINT		1
TP7203-05	EYF6CU	TEST POINT		3
TP7403-08	EYF6CU	TEST POINT		7
TP7801, 02	EYF6CU	TEST POINT		2
TP45001-0	EYF6CU	TEST POINT		5
TP45101	EYF6CU	TEST POINT		1

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
TP45201-0	EYF6CU	TEST POINT		7
TP45212	EYF6CU	TEST POINT		1
TP45301, 0	EYF6CU	TEST POINT		2
TP45304, 0	EYF6CU	TEST POINT		2
TP45601	EYF6CU	TEST POINT		1
TP45602	VJR0098	TEST POINT		1
TP45603	EYF6CU	TEST POINT		1
TP45701	EYF6CU	TEST POINT		1
TP45703	EYF6CU	TEST POINT		1
TP47101-0	EYF6CU	TEST POINT		4
TP47301, 0	EYF6CU	TEST POINT		2
VC7201	VCV0050	TRIMMER		1
VC7401	VCV0050	TRIMMER		1
VL3701	VL00415	COIL		1
VR3002	EVN7JGA00B13	V. RESISTOR	1K	1
VR3006	EVN7JGA00B13	V. RESISTOR	1K	1
VR3008	EVN7JGA00B52	V. RESISTOR	500	1
VR3201	EVN7JGA00B13	V. RESISTOR	1K	1
VR3203	EVN7JGA00B23	V. RESISTOR	2K	1
VR3208	EVN7JGA00B23	V. RESISTOR	2K	1
VR3211	EVN7JGA00B14	V. RESISTOR	10K	1
VR3213, 14	EVN7JGA00B23	V. RESISTOR	2K	2
VR3405	EVN7JGA00B53	V. RESISTOR	5K	1
VR3501, 02	EVN7JGA00B53	V. RESISTOR	5K	2
VR3503	EVN7JGA00B52	V. RESISTOR	500	1
VR3601	EVN7JGA00B52	V. RESISTOR	500	1
VR3602	EVN7JGA00B53	V. RESISTOR	5K	1
VR3701	EVN7JGA00B23	V. RESISTOR	2K	1
VR7003	EVN7JGA00B13	V. RESISTOR	1K	1
VR7004	EVN7JGA00B15	V. RESISTOR	100K	1
VR7006	EVN7JGA00B13	V. RESISTOR	1K	1
VR7007	EVN7JGA00B14	V. RESISTOR	10K	1
VR7008	EVN7JGA00B52	V. RESISTOR	500	1
VR7009	EVN7JGA00B13	V. RESISTOR	1K	1
VR7010	EVN7JGA00B52	V. RESISTOR	500	1
VR7202	EVN7JGA00B23	V. RESISTOR	2K	1
VR7204	EVN7JGA00B23	V. RESISTOR	2K	1
VR7205	EVN7JGA00B13	V. RESISTOR	1K	1
VR7206	EVN7JGA00B53	V. RESISTOR	5K	1
VR7207	EVN7JGA00B13	V. RESISTOR	1K	1
VR7208	EVN7JGA00B53	V. RESISTOR	5K	1
VR7210	EVN7JGA00B52	V. RESISTOR	500	1
VR7214	EVN7JGA00B24	V. RESISTOR	20K	1
VR7215	EVN7JGA00B14	V. RESISTOR	10K	1
VR7402	EVN7JGA00B52	V. RESISTOR	500	1
VR7801	EVN7JGA00B13	V. RESISTOR	1K	1
VR7803	EVN7JGA00B13	V. RESISTOR	1K	1
VR7805, 06	EVN7JGA00B52	V. RESISTOR	500	2
VR7901	EVN7JGA00B24	V. RESISTOR	20K	1
VR7902	EVN7JGA00B14	V. RESISTOR	10K	1
VR45001, 0	VRV0161B103	V. RESISTOR	10K	2
VR45201, 0	VRV0161B103	V. RESISTOR	10K	2
VR45203, 0	EVN7JGA00B53	V. RESISTOR	5K	2
VR45302	VRV0161B102	V. RESISTOR	1K	1
VR45304	VRV0161B102	V. RESISTOR	1K	1
VR45309, 1	EVN7JGA00B14	V. RESISTOR	10K	2
VR45601	VRV0161B503	V. RESISTOR	50K	1
VR45802	VRV0161B103	V. RESISTOR	10K	1
VR45701	VRV0161B503	V. RESISTOR	50K	1
X3401	VXS0270	CRYSTAL OSCILLATOR		1
X47101	VXS0519	CRYSTAL OSCILLATOR		1
X47201	VXS0453	CRYSTAL OSCILLATOR		1
X47301	VXS0665	CRYSTAL OSCILLATOR		1
		MISCELLANEOUS		
	VJF0658	RIB		3
	VNX2643	CARD EDGE SPACER		3
	VKC0422	SPACER		2
	VJF0309	CLAMPER		2
	VJF1312	CONNECTOR HOLDER		3

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
■ E7	VEP05339B	RF AMP P.C. BOARD	1	(RTL)	C5615	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C5001	ECEV1CV220Q	E. CAPACITOR CH 16V 22U	1		C5617	ECUM1C473KBV	C. CAPACITOR CH 16V 0.047U	1	
C5002, 03	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C5618, 19	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C5004	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1		C5620, 21	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C5013	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C5622	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
C5014	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1		C5624	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C5023	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C5626	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C5024	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1		C5628	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C5031	ECEV1CV220Q	E. CAPACITOR CH 16V 22U	1		C5630, 31	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C5032, 33	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C5632	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C5034	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1		C5633-36	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C5043	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C5637, 38	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	2	
C5044	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1		C5639-44	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6	
C5053	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C5646-58	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	13	
C5054	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1		C5659	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C5063	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C5660	ECUX1H182KBV	C. CAPACITOR CH 50V 1800P	1	
C5064	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1		C5661, 62	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C5071	ECEV1EV100Q	E. CAPACITOR CH 25V 10U	1		C5700-09	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	10	
C5072, 73	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C5710	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C5074	ECEV1EV330Q	E. CAPACITOR CH 25V 33U	1		C5711-13	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C5093	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C5714	ECUM1C473KBV	C. CAPACITOR CH 16V 0.047U	1	
C5094	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1		C5715	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C5101	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1		C5717	ECUM1C473KBV	C. CAPACITOR CH 16V 0.047U	1	
C5102	ECEVOJV1010	E. CAPACITOR CH 6V 3V 100U	1		C5718, 19	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C5200-10	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	11		C5720, 21	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C5220	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		C5722	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
C5250-60	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	11		C5724	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C5270	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		C5726	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C5300, 01	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C5728	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C5303, 04	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C5730, 31	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C5306	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1		C5732	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C5314	ECUX1H030CCV	C. CAPACITOR CH 50V 3P	1		C5733-36	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C5315	ECUX1H1000CV	C. CAPACITOR CH 50V 10P	1		C5737, 38	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	2	
C5316, 17	ECUX1H0800CV	C. CAPACITOR CH 50V 8P	2		C5739, 40	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C5350, 51	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C5743, 44	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C5353, 54	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C5746-58	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	13	
C5356	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1		C5759	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C5364	ECUX1H030CCV	C. CAPACITOR CH 50V 3P	1		C5760	ECUX1H182KBV	C. CAPACITOR CH 50V 1800P	1	
C5365	ECUX1H1000CV	C. CAPACITOR CH 50V 10P	1		C5807	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C5366, 67	ECUX1H0800CV	C. CAPACITOR CH 50V 8P	2		C5817	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C5400-02	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3		C5827	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C5403	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1		C5841, 42	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C5404-07	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4		C5851, 52	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C5408, 09	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	2		C5861, 62	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C5411	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C5871-76	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6	
C5412	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1		C5881-83	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C5413-15	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3		C5889-00	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	12	
C5421	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		D5101	MA153	DIODE	1	
C5422	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1		D5401, 02	MA141WK	DIODE	2	
C5423-25	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3		D5501, 02	MA141WK	DIODE	2	
C5430	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1		FL5001-03	VLF1016A470	FILTER	3	
C5431	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1		IC5001, 02	XC82AP5002P	IC	2	
C5432-35	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4		IC5003-05	XC82DN5002P	IC	3	
C5451-54	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4		IC5006	XC82AP5002P	IC	1	
C5500-02	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3		IC5200	UPC5102GS030	IC	1	
C5503	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1		IC5250	UPC5102GS030	IC	1	
C5504-07	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4		IC5301	TC4S66F	IC	1	
C5508, 09	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	2		IC5303	TC4S69F	IC	1	
C5511	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		IC5351	TC4S66F	IC	1	
C5512	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1		IC5353	TC4S69F	IC	1	
C5513-15	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3		IC5400	MC10H116M	IC	1	
C5521	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		IC5401	TC4S66F	IC	1	
C5522	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1		IC5402	TC4S30F	IC	1	
C5523-25	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3		IC5403, 04	TC4S69F	IC	2	
C5530	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1		IC5451	TC4S30F	IC	1	
C5531	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1		IC5501	TC4S66F	IC	1	
C5532-35	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4		IC5502	TC4S30F	IC	1	
C5600-09	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	10		IC5503, 04	TC4S69F	IC	2	
C5610	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1		IC5601	UPC1663G	IC	1	
C5611-13	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3		IC5602	NJM1496V	IC	1	
C5614	ECUM1C473KBV	C. CAPACITOR CH 16V 0.047U	1		IC5603	NJM062V	IC	1	
					IC5701	UPC1663G	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC5702	NJM1486V	IC	1		Q5711-13	2SC3935	TRANSISTOR	3	
IC5800	MB88344PFV	IC	1		Q5714, 15	2SK508K512	TRANSISTOR	2	
IC5804, 05	NJM064V	IC	2		Q5716-19	XN5531	TRANSISTOR-RESISTOR	4	
IC5806, 07	MC14053BD	IC	2		Q5720	2SC3935	TRANSISTOR	1	
L5301, 02	VLQ0183J2R2	COIL 2.2UH	2		QR5301	UN5213	TRANSISTOR-RESISTOR	1	
L5351, 52	VLQ0183J2R2	COIL 2.2UH	2		QR5351	UN5213	TRANSISTOR-RESISTOR	1	
L5411	VLQ0183J330	COIL 33UH	1		R5001	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
L5421	VLQ0183J330	COIL 33UH	1		R5100	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
L5511	VLQ0183J330	COIL 33UH	1		R5101	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
L5521	VLQ0183J330	COIL 33UH	1		R5102-04	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
L5600	VLQ0183J1R0	COIL 1UH	1		R5200	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	
L5603, 04	VLQ0183J101	COIL 100UH	2		R5201, 02	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
L5605, 06	VLQ0183KR39	COIL 0.39UH	2		R5203, 04	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	2	
L5700	VLQ0183J1R0	COIL 1UH	1		R5205, 06	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
L5703, 04	VLQ0183J101	COIL 100UH	2		R5207, 08	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
L5705, 06	VLQ0183KR39	COIL 0.39UH	2		R5209, 10	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
P5001	VJP3862F052	CONNECTOR (MALE)	1		R5211, 12	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
P5002	VJS3826A013	CONNECTOR (FEMALE)	1		R5213, 14	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	2	
P5003	VJS3826A010	CONNECTOR (FEMALE)	1		R5250	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	
P5004	VJP2278	CONNECTOR (MALE)	1		R5251, 52	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
P5005	VJP3950A009	CONNECTOR (MALE)	1		R5253, 54	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	2	
Q5101	2SB709A-R	TRANSISTOR	1		R5255, 56	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
Q5102	2SD601A-R	TRANSISTOR	1		R5257, 58	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
Q5200, 01	XN5531	TRANSISTOR-RESISTOR	2		R5259, 60	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
Q5250, 51	XN5531	TRANSISTOR-RESISTOR	2		R5261, 62	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
Q5302	2SD1819A-R	TRANSISTOR	1		R5263, 64	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	2	
Q5303	2SB709A-R	TRANSISTOR	1		R5301	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
Q5304, 05	2SC3735B35	TRANSISTOR	2		R5302	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
Q5352	2SD1819A-R	TRANSISTOR	1		R5303, 04	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	2	
Q5353	2SB709A-R	TRANSISTOR	1		R5305	ERJ6GEYJ150	M. RESISTOR CH 1/10W 15	1	
Q5354, 55	2SC3735B35	TRANSISTOR	2		R5306, 07	ERJ3GEYJ472	M. RESISTOR CH 1/16W 4.7K	2	
Q5400	2SA1532-B	TRANSISTOR	1		R5308, 09	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
Q5401-04	2SD1979	TRANSISTOR	4		R5310, 11	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
Q5411	2SC3935	TRANSISTOR	1		R5312	ERJ6GEYJ680	M. RESISTOR CH 1/10W 68	1	
Q5412	2SC2954	TRANSISTOR	1		R5351	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
Q5413	2SK508K512	TRANSISTOR	1		R5352	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
Q5421	2SC3935	TRANSISTOR	1		R5353, 54	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	2	
Q5422	2SC2954	TRANSISTOR	1		R5355	ERJ6GEYJ150	M. RESISTOR CH 1/10W 15	1	
Q5423	2SK508K512	TRANSISTOR	1		R5356, 57	ERJ3GEYJ472	M. RESISTOR CH 1/16W 4.7K	2	
Q5431	2SC3930-B	TRANSISTOR	1		R5358, 59	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
Q5432, 33	2SA1532-B	TRANSISTOR	2		R5360, 61	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
Q5434	2SC2954	TRANSISTOR	1		R5362	ERJ6GEYJ680	M. RESISTOR CH 1/10W 68	1	
Q5452	UN5213	TRANSISTOR-RESISTOR	1		R5400	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
Q5453	2SB1218A-R	TRANSISTOR	1		R5401, 02	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	2	
Q5454	2SD1280-S	TRANSISTOR	1		R5403	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
Q5500	2SA1532-B	TRANSISTOR	1		R5404-07	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	4	
Q5501-04	2SD1979	TRANSISTOR	4		R5408, 09	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
Q5511	2SC3935	TRANSISTOR	1		R5410	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1	
Q5512	2SC2954	TRANSISTOR	1		R5411	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	
Q5513	2SK508K512	TRANSISTOR	1		R5412	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1	
Q5521	2SC3935	TRANSISTOR	1		R5413	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	
Q5522	2SC2954	TRANSISTOR	1		R5414	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
Q5523	2SK508K512	TRANSISTOR	1		R5415	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	
Q5531	2SC3930-B	TRANSISTOR	1		R5416	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
Q5532, 33	2SA1532-B	TRANSISTOR	2		R5417	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
Q5534	2SC2954	TRANSISTOR	1		R5420	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1	
Q5600	XN6537	TRANSISTOR-RESISTOR	1		R5421	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	
Q5601	XN5531	TRANSISTOR-RESISTOR	1		R5422	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1	
Q5603	XN5531	TRANSISTOR-RESISTOR	1		R5423	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	
Q5604	2SC3935	TRANSISTOR	1		R5424	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
Q5605	XN5531	TRANSISTOR-RESISTOR	1		R5425	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	
Q5606, 07	2SK508K512	TRANSISTOR	2		R5426	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
Q5611-13	2SC3935	TRANSISTOR	3		R5430	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
Q5614, 15	2SK508K512	TRANSISTOR	2		R5431	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
Q5616-19	XN5531	TRANSISTOR-RESISTOR	4		R5432	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
Q5620	2SC3935	TRANSISTOR	1		R5433	ERJ3GEYJ472	M. RESISTOR CH 1/16W 4.7K	1	
Q5700	XN6537	TRANSISTOR-RESISTOR	1		R5434, 35	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	2	
Q5701	XN5531	TRANSISTOR-RESISTOR	1		R5436	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
Q5703	XN5531	TRANSISTOR-RESISTOR	1		R5437	ERJ12YJ270	M. RESISTOR CH 1/2W 270	1	
Q5704	2SC3935	TRANSISTOR	1		R5441, 42	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	2	
Q5705	XN5531	TRANSISTOR-RESISTOR	1		R5451	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
Q5706, 07	2SK508K512	TRANSISTOR	2		R5454	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
					R5455	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R5456	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R5459, 60	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	2	
R5461, 62	ERJ3GEYJ000	M. RESISTOR CH 1/16W 0	2	
R5463	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R5500	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5501, 02	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	2	
R5503	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5504-07	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	4	
R5508, 09	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R5510	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1	
R5511	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	
R5512	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1	
R5513	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	
R5514	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5515	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	
R5516	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R5517	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5520	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1	
R5521	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	
R5522	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1	
R5523	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	
R5524	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5525	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	
R5526	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R5530	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R5531	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R5532	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5533	ERJ3GEYJ472	M. RESISTOR CH 1/16W 4.7K	1	
R5534, 35	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	2	
R5536	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R5537	ERJ12YJ270	M. RESISTOR CH 1/2W 270	1	
R5541, 42	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	2	
R5600, 01	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5602	ERJ3GEYJ560	M. RESISTOR CH 1/16W 56	1	
R5603, 04	ERJ3GEYJ271	M. RESISTOR CH 1/16W 270	2	
R5605	ERJ3GEYJ121	M. RESISTOR CH 1/16W 120	1	
R5606	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5607	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R5608	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5609	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R5610, 11	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5612, 13	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	2	
R5614	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5615	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1	
R5616	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5617	ERJ3GEYJ472	M. RESISTOR CH 1/16W 4.7K	1	
R5619	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R5620, 21	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5622	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R5623, 24	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5625	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1	
R5627, 28	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5630, 31	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5632	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	1	
R5633	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R5634	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	1	
R5635-38	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	4	
R5639, 40	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	2	
R5641, 42	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R5643, 44	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5645, 46	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R5647, 48	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5649	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R5650, 51	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R5652	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R5653, 54	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5660, 61	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5662	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1	
R5663	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5664-66	ERJ3GEYJ472	M. RESISTOR CH 1/16W 4.7K	3	
R5667, 68	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R5669	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1	
R5670-72	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	3	
R5673-76	ERJ3GEYJ560	M. RESISTOR CH 1/16W 56	4	
R5677	ERJ3GEYJ682	M. RESISTOR CH 1/16W 8.2K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R5678	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1	
R5681	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	1	
R5682	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R5683	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	1	
R5684	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R5685	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5686	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5688, 89	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5690, 91	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	2	
R5692	VRE0071E181	M. RESISTOR CH 1/16W 180	1	
R5693	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R5694	VRE0071E391	M. RESISTOR CH 1/16W 390	1	
R5695	VRE0071E181	M. RESISTOR CH 1/16W 180	1	
R5696	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R5697	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5698	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R5699-01	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R5702	ERJ3GEYJ560	M. RESISTOR CH 1/16W 56	1	
R5703, 04	ERJ3GEYJ271	M. RESISTOR CH 1/16W 270	2	
R5705	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	1	
R5706	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5707	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R5708	ERJ3GEYJ221	M. RESISTOR CH 1/16W 2.2K	1	
R5709	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R5710, 11	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5712, 13	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	2	
R5714	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5715	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1	
R5716	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5717	ERJ3GEYJ472	M. RESISTOR CH 1/16W 4.7K	1	
R5719	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R5720, 21	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5722	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R5723, 24	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5725	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1	
R5727, 28	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5730, 31	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5732	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	1	
R5733	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R5734	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	1	
R5735-38	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	4	
R5739, 40	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	2	
R5741, 42	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R5743, 44	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5745, 46	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R5747, 48	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5749	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R5750, 51	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R5752	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R5753, 54	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5760, 61	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5762	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1	
R5763	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5764-66	ERJ3GEYJ472	M. RESISTOR CH 1/16W 4.7K	3	
R5767, 68	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R5769	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1	
R5770-72	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	3	
R5773-76	ERJ3GEYJ560	M. RESISTOR CH 1/16W 56	4	
R5777	ERJ3GEYJ822	M. RESISTOR CH 1/16W 8.2K	1	
R5778	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1	
R5781	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	1	
R5782	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R5783	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	1	
R5784	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R5785	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5786	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5788, 89	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5790, 91	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	2	
R5792	VRE0071E181	M. RESISTOR CH 1/16W 180	1	
R5793	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R5794	VRE0071E391	M. RESISTOR CH 1/16W 390	1	
R5795	VRE0071E181	M. RESISTOR CH 1/16W 180	1	
R5796	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R5797	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5798	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R5799	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R5831	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R5832	VRE0071E122	M. RESISTOR CH 1/16W 1.2K	1	
R5833, 34	VRE0071E153	M. RESISTOR CH 1/16W 15K	2	
R5836	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R5837	VRE0071E122	M. RESISTOR CH 1/16W 1.2K	1	
R5838, 39	VRE0071E153	M. RESISTOR CH 1/16W 15K	2	
R5841, 42	VRE0071E103	M. RESISTOR CH 1/16W 10K	2	
R5843	VRE0071E333	M. RESISTOR CH 1/16W 33K	1	
R5844	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
R5845-47	VRE0071E103	M. RESISTOR CH 1/16W 10K	3	
R5848	VRE0071E333	M. RESISTOR CH 1/16W 33K	1	
R5849	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
R5850-52	VRE0071E103	M. RESISTOR CH 1/16W 10K	3	
R5853	VRE0071E333	M. RESISTOR CH 1/16W 33K	1	
R5854	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
R5855	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R5856	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R5857	VRE0071E272	M. RESISTOR CH 1/16W 2.7K	1	
R5858	VRE0071E333	M. RESISTOR CH 1/16W 33K	1	
R5859	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
R5860	VRE0071E153	M. RESISTOR CH 1/16W 15K	1	
R5861, 62	VRE0071E103	M. RESISTOR CH 1/16W 10K	2	
R5863	VRE0071E333	M. RESISTOR CH 1/16W 33K	1	
R5864	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
R5865	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R5866	VRE0071E222	M. RESISTOR CH 1/16W 2.2K	1	
R5867	VRE0071E272	M. RESISTOR CH 1/16W 2.7K	1	
R5868	VRE0071E333	M. RESISTOR CH 1/16W 33K	1	
R5869	VRE0071E223	M. RESISTOR CH 1/16W 22K	1	
R5870	VRE0071E153	M. RESISTOR CH 1/16W 15K	1	
R5871, 72	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R5881-83	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R5884-86	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R5889-90	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	12	
TG5501	EYF6CU	TEST POINT	1	
TG5601	EYF6CU	TEST POINT	1	
TG5701	EYF6CU	TEST POINT	1	
TP5401	EYF6CU	TEST POINT	1	
TP5501	EYF6CU	TEST POINT	1	
TP5601-03	EYF6CU	TEST POINT	3	
TP5701-03	EYF6CU	TEST POINT	3	
TP5801, 02	EYF6CU	TEST POINT	2	
		MISCELLANEOUS		
	VSC4605	SHIELD CASE (MIDDLE)	1	
	VSC4606	SHIELD CASE (LOWER)	1	
■ E8	VEP00X92A	ENCODER VR L P.C. BOARD	1 (RTL)	
G1, C2	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	2	
P1, P2	VJS3927A006J	CONNECTOR (FEMALE)	2	
R1	ERJ66EYG392	M. RESISTOR CH 1/10W 3.9K	1	
R2	ERJ66EYG183	M. RESISTOR CH 1/10W 18K	1	
R3	ERJ66EYG273	M. RESISTOR CH 1/10W 27K	1	
R4	ERJ66EYG682	M. RESISTOR CH 1/10W 6.8K	1	
R5, R6	ERJ66EYG223	M. RESISTOR CH 1/10W 22K	2	
R7	ERJ66EYG392	M. RESISTOR CH 1/10W 3.9K	1	
R8	ERJ66EYG183	M. RESISTOR CH 1/10W 18K	1	
R9	ERJ66EYG273	M. RESISTOR CH 1/10W 27K	1	
R11, 12	ERJ66EYG223	M. RESISTOR CH 1/10W 22K	2	
R13	ERJ66EYG682	M. RESISTOR CH 1/10W 6.8K	1	
R18, 19	ERJ66EYG103	M. RESISTOR CH 1/10W 10K	2	
SW1	VSR0066	SWITCH	1	
VR1-R3	VRV0279	V. RESISTOR	3	
VR4-R6	VRV0280	V. RESISTOR	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
■ E9	VEP00X97A	ENCODER VR R P.C. BOARD	1 (RTL)	
G1, C2	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	2	
P1, P2	VJS3927A006J	CONNECTOR (FEMALE)	2	
R1	ERJ66EYG392	M. RESISTOR CH 1/10W 3.9K	1	
R2	ERJ66EYG183	M. RESISTOR CH 1/10W 18K	1	
R3	ERJ66EYG273	M. RESISTOR CH 1/10W 27K	1	
R4	ERJ66EYG682	M. RESISTOR CH 1/10W 6.8K	1	
R5, R6	ERJ66EYG223	M. RESISTOR CH 1/10W 22K	2	
R7	ERJ66EYG392	M. RESISTOR CH 1/10W 3.9K	1	
R8	ERJ66EYG183	M. RESISTOR CH 1/10W 18K	1	
R9	ERJ66EYG273	M. RESISTOR CH 1/10W 27K	1	
R11, 12	ERJ66EYG223	M. RESISTOR CH 1/10W 22K	2	
R13	ERJ66EYG682	M. RESISTOR CH 1/10W 6.8K	1	
R18, 19	ERJ66EYG103	M. RESISTOR CH 1/10W 10K	2	
SW1	VSR0066	SWITCH	1	
VR1-R3	VRV0279	V. RESISTOR	3	
VR4-R6	VRV0280	V. RESISTOR	3	
■ E10	VEP00Y41A	MOTHER P.C. BOARD	1 (RTL)	
P2101	VJS3949A070M	CONNECTOR (FEMALE)	1	
P2201	VJS3949A070M	CONNECTOR (FEMALE)	1	
P4001, 02	VJP3952B070	CONNECTOR (MALE)	2	
P5101	VJS3862F052L	CONNECTOR (FEMALE)	1	
P5201	VJS3862F052L	CONNECTOR (FEMALE)	1	
P7811, 12	VJS3949A120L	CONNECTOR (FEMALE)	2	
P7821, 22	VJS3949A120L	CONNECTOR (FEMALE)	2	
■ E11	VEP00Y42A	CONNECTION BOARD 1 P.C. BOARD	1 (RTL)	
P1, P2	VJS3949A120L	CONNECTOR (FEMALE)	2	
■ E12	VEP00Y43A	CONNECTION BOARD 2 P.C. BOARD	1 (RTL)	
P1, P2	VJS3949A080L	CONNECTOR (FEMALE)	2	
■ E13	VEP00Y44A	CONNECTION BOARD 3 P.C. BOARD	1 (RTL)	
P1, P2	VJS3949A070M	CONNECTOR (FEMALE)	2	
		MISCELLANEOUS		
	VMX2683	SPACER	2	
■ E16	VEP00X93A	FRONT JACK P.C. BOARD	1 (RTL)	
J49001	VJJ0522	JACK	1	
L49001, 02	VLQ0599J220	COIL 22UH	2	
P49001	VJP1598T	CONNECTOR (MALE) 5P	1	
■ E17	VEP02545B	SERVO P.C. BOARD	1 (RTL)	
G2001	ECEV10V100Q	E. CAPACITOR CH 16V 10U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C2003	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		C2480	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C2101	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1		C2501-06	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	6	
C2103	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C2507	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	1	
C2107, 08	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2		C2508-12	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	5	
C2109, 10	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	2		C2513, 14	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	2	
C2111, 12	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2		C2515-19	VCE0180	CAPACITOR	5	
C2113	ECEV1HVR33Q	E. CAPACITOR CH 50V 0.33U	1		C2520-25	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	6	
C2114	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		C2526-31	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	6	
C2115	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C2532-37	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	6	
C2116	ECUM1H333KBN	C. CAPACITOR CH 50V 0.033U	1		C2539, 40	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	2	
C2117	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C2541	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C2201	ECUX1H682KBV	C. CAPACITOR CH 50V 6800P	1		C2542	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C2202	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		C2543	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C2203	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1		C2601	VCE0180	CAPACITOR	1	
C2204	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		C2603	VCE0180	CAPACITOR	1	
C2205	ECUX1H182KBV	C. CAPACITOR CH 50V 1800P	1		C2606	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C2206	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		C2607	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C2208, 09	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2		C2608	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C2210	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1		C2609	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C2211	ECEV1CV220Q	E. CAPACITOR CH 16V 22U	1		C2610	VCC0037F432	C. CAPACITOR 432P	1	
C2212	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		C2611	VCE0180	CAPACITOR	1	
C2213, 14	ECUX1H562KBV	C. CAPACITOR CH 50V 5600P	2		C2613	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C2215, 16	ECUM1H333KBN	C. CAPACITOR CH 50V 0.033U	2		C2614	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C2217	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C2615	VCE0180	CAPACITOR	1	
C2218, 19	ECUX1H010CCV	C. CAPACITOR CH 50V 1P	2		C2617	VCE0180	CAPACITOR	1	
C2221	ECUX10333KBV	C. CAPACITOR CH 16V 0.033U	1		C2619	VCK0152	C. CAPACITOR	1	
C2222, 23	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2		C2620	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C2224	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1		C2621	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	1	
C2225	ECUX1H562KBV	C. CAPACITOR CH 50V 5600P	1		C2622	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C2226, 27	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2		C2707	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C2301	ECUX1H332KBV	C. CAPACITOR CH 50V 3300P	1		C2708	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C2302, 03	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	2		C2709	ECUX1H122KBV	C. CAPACITOR CH 50V 1200P	1	
C2304	ECUX1H332KBV	C. CAPACITOR CH 50V 3300P	1		C2710	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C2305, 06	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	2		C2711	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C2307	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1		C2712, 13	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C2308	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1		C2714	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C2309	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1		C2715	ECUX1E273KBV	C. CAPACITOR CH 25V 0.027U	1	
C2310	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1		C2716	ECUX1H332KBV	C. CAPACITOR CH 50V 3300P	1	
C2311	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1		C2717	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C2312	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1		C2719	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C2313	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		C2721-24	ECEV1AV330Q	E. CAPACITOR CH 10V 33U	4	
C2314	VCK0152	C. CAPACITOR	1		C2725, 26	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C2315-20	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	6		C2727	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C2402	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1		C2728, 29	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C2406	ECUX1H562KBV	C. CAPACITOR CH 50V 5600P	1		C2801-04	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	4	
C2408, 09	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2		C2903	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C2411	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1		C2904	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C2413	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1		C2905	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C2414-16	ECUX1H472KBV	C. CAPACITOR CH 50V 4700P	3		C2906	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C2417, 18	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	2		C2907	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C2419	ECEV1HV2R2Q	E. CAPACITOR CH 50V 2.2U	1		C2908	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C2420, 21	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	2		C2909	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C2422	ECEV1HV2R2Q	E. CAPACITOR CH 50V 2.2U	1		C2910	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C2423, 24	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	2		C2911	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C2425	ECUM1C474KBM	C. CAPACITOR CH 16V 0.47U	1		C2912	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C2426	ECEV1HV2R2Q	E. CAPACITOR CH 50V 2.2U	1		C2913	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C2427	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1		C2914	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C2432	ECUM1H333KBN	C. CAPACITOR CH 50V 0.033U	1		C2915	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C2434	ECUM1H333KBN	C. CAPACITOR CH 50V 0.033U	1		C2918	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C2437	ECUM1H333KBN	C. CAPACITOR CH 50V 0.033U	1		C2919	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C2438	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C2921	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C2444	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1		C2923-25	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
C2445	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1		C2926	ECEV1HV3R3Q	E. CAPACITOR CH 50V 3.3U	1	
C2450	ECUX1H562KBV	C. CAPACITOR CH 50V 5600P	1		C2927	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C2451	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C2928	VCK0152	C. CAPACITOR	1	
C2455-57	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	3		C2932	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C2458-60	ECEV1HV2R2Q	E. CAPACITOR CH 50V 2.2U	3		C2934	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C2461	ECUM1C474KBM	C. CAPACITOR CH 16V 0.47U	1		C2935	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	1	
C2462	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1		C2937	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C2463, 64	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	2		C2942	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C2465-67	ECUX1H472KBV	C. CAPACITOR CH 50V 4700P	3		C2947-49	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
C2468-70	ECUM1H333KBN	C. CAPACITOR CH 50V 0.033U	3		C2951	ECEV1CV220Q	E. CAPACITOR CH 16V 22U	1	
C2471-76	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	6		C2952-55	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	4	
C2477, 78	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	2		C64001	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C2479	VCK0152	C. CAPACITOR	1		C64002	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C64003	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		IC2602	XC62AP5002P	IC	1	
C64201, 02	ECEVICV470Q	E. CAPACITOR CH 16V 47U	2		IC2701	UPC455662	IC	1	
C64203	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1		IC2702	TC4W53FU	IC	1	
C64204, 05	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	2		IC2703	NJM4565MD	IC	1	
C64206	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		IC2704	TC7W04F	IC	1	
C64207	ECEVIEV4R7Q	E. CAPACITOR CH 25V 4. 7U	1		IC2705	TC7W74FU	IC	1	
C64208	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1		IC2801	T180G11-1258	IC	1	
C64209	ECEVICV470Q	E. CAPACITOR CH 16V 47U	1		IC2901	TA75W558FU	IC	1	
					IC2902	TA75W393FU	IC	1	
					IC2904	TA75W558FU	IC	1	
D2001, 02	MA704	DIODE	2		IC2905	TA75W393FU	IC	1	
D2301, 02	MA143	DIODE	2		IC2906, 07	UPC4558G2	IC	2	
D2401-06	MA738	DIODE	6		IC2908	TA75W01FU	IC	1	
D2450-55	MA738	DIODE	6		IC84001	NJM2904M	IC	1	
D2501, 02	MA736	DIODE	2		IC84201, 0	M54649L	IC	2	
D2503, 04	MA728	DIODE	2						
D2601	MA728	DIODE	1		L2001	VLQ0319K101	COIL	100UH	1
D2602	MA736	DIODE	1		L2003	VLQ0319K100	COIL	10UH	1
D2603	MA728	DIODE	1		L2101	VLQ0319K100	COIL	10UH	1
D2604	MA736	DIODE	1		L2102	VLQ0319K101	COIL	100UH	1
D2701-03	MA143	DIODE	3		L2201-03	VLQ0319K100	COIL	10UH	3
D2901-04	MA143	DIODE	4		L2502	VLQ0407120M	COIL	12UH	1
D2908, 07	MA736	DIODE	2		L2503	VLQ0319K100	COIL	10UH	1
D64001	MA8051-H	DIODE	1		L2504	VLQ0407151K	COIL	150UH	1
D64002	21DQ04	DIODE	1		L2505	VLQ0129	COIL	300UH	1
D64003-08	MA738	DIODE	6		L2601	VLQ0407120M	COIL	12UH	1
D64009, 10	NSQ03A04	DIODE	2		L2603, 04	VLQ0407151K	COIL	150UH	2
D64011, 12	MA738	DIODE	2		L2701, 02	VLQ0319K101	COIL	100UH	2
D64013, 14	NSQ03A04	DIODE	2		L2801	VLQ0319K101	COIL	100UH	1
D64015-22	MA738	DIODE	8		L2901	VLQ0319K101	COIL	100UH	1
D64023-28	MA142WA	DIODE	4		L64201, 02	VLQ0319K101	COIL	100UH	2
D64201	MA3082M	DIODE	1						
D64203	MA3088-M	DIODE	1		P2001, 02	VJP3949A070H	CONNECTOR (MALE)		2
D64204	MA3056-M	DIODE	1		P2003	VJP1231T	CONNECTOR (MALE)	4P	1
D64205	MA3051-M	DIODE	1		P2004	VJP1230T	CONNECTOR (MALE)	3P	1
D64206	MA3068-H	DIODE	1		P2011	VJP3172D002	CONNECTOR (MALE)		1
D64207	MA3082M	DIODE	1		P2012	VJP3172D005	CONNECTOR (MALE)		1
D64208	MA3062-L	DIODE	1		P2013	VJP3172D002	CONNECTOR (MALE)		1
D64209	MA3056-H	DIODE	1		P2014	VJP3172D003	CONNECTOR (MALE)		1
D64210	MA3100L	DIODE	1		P2015	VJP3518B002	CONNECTOR (MALE)		1
D64211	MA3068-M	DIODE	1		P2016	VJP3518B003	CONNECTOR (MALE)		1
D64212	MA3051-L	DIODE	1		P2017	VJS3801B010	CONNECTOR (FEMALE)		1
D64213	MA3056-M	DIODE	1		P2018	VJP3518B002	CONNECTOR (MALE)		1
D64214	MA3075-M	DIODE	1		P2019	VJP3172D002	CONNECTOR (MALE)		1
D64215	MA738	DIODE	1		P2020	VJP3518B003	CONNECTOR (MALE)		1
D64216	MA142WK	DIODE	1		P2021	VJP3518B002	CONNECTOR (MALE)		1
					P2022, 23	VJP3172D004	CONNECTOR (MALE)		2
FL2001	VLF0941C223	FILTER	1		P2024	VJP3518B002	CONNECTOR (MALE)		1
					P2025	VJP1230T	CONNECTOR (MALE)	3P	1
IC2101	VS12484A	IC	1		P2026	VJP1236T	CONNECTOR (MALE)	8P	1
IC2102	TC7SHU04FU	IC	1		P2030	VJP3172D003	CONNECTOR (MALE)		1
IC2103	S80730ANDT	IC	1		P2032	VJP3172D004	CONNECTOR (MALE)		1
IC2104, 05	TC4W53FU	IC	2		P2033	VJS3408B015	CONNECTOR (FEMALE)		1
IC2106	TC7SHU04FU	IC	1		P2034, 35	VJS3813C017	CONNECTOR (FEMALE)		2
IC2201	VS12485	IC	1		P2036	VJS3408B019	CONNECTOR (FEMALE)		1
IC2202	SC371025AVFU	IC	1		P2037	VJP3125B002	CONNECTOR (MALE)		1
IC2203	TA75W01FU	IC	1		P2038	VJP3172D002	CONNECTOR (MALE)		1
IC2205	TC7W74FU	IC	1						
IC2206	TA75W01FU	IC	1		Q2501, 02	2SB1073-R	TRANSISTOR		2
IC2207	TCVHC574FS	IC	1		Q2503-06	2SD1820-R	TRANSISTOR		4
IC2209-11	TC7SHU04FU	IC	3		Q2507-09	2SD1119-R	TRANSISTOR		3
IC2301	TA75W558FU	IC	1		Q2510-12	2SB1073-R	TRANSISTOR		3
IC2302	TA75W393FU	IC	1		Q2513-15	2SD1119-R	TRANSISTOR		3
IC2303	TA75W558FU	IC	1		Q2516-18	2SB1073-R	TRANSISTOR		3
IC2304	TA75W393FU	IC	1		Q2801, 02	2SB1073-R	TRANSISTOR		2
IC2305	TA75W558FU	IC	1		Q2701	2SD1820-R	TRANSISTOR		1
IC2306	TC7W74FU	IC	1		Q2702	2SB1219A-R	TRANSISTOR		1
IC2401, 02	AN3834S	IC	2		Q2703	2SD1820-R	TRANSISTOR		1
IC2404	TA75W558FU	IC	1		Q2704, 05	2SB1219-R	TRANSISTOR		2
IC2405	TA75W01FU	IC	1		Q2706, 07	2SD1820-R	TRANSISTOR		2
IC2406	TA75W393FU	IC	1		Q2708	2SB1219A-R	TRANSISTOR		1
IC2407	XC62DN5002P	IC	1		Q2901	2SB1219A-R	TRANSISTOR		1
IC2502	TA75W393FU	IC	1		Q64001	2SB936A-Q	TRANSISTOR		1
IC2503	TB8519F	IC	1		Q64002	2SD1819A-R	TRANSISTOR		1
IC2506	TB8519F	IC	1		Q64003	2SB1073-R	TRANSISTOR		1
IC2801	TL1451ONS	IC	1						

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q64004	2SD1819A-R	TRANSISTOR	1		R2225	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
Q64005	2SB1219A-R	TRANSISTOR	1		R2226	ERJ3GEYJ124	M. RESISTOR CH 1/16W 120K	1	
Q64006	2SD1819A-R	TRANSISTOR	1		R2227	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
Q64007	2SB1073-R	TRANSISTOR	1		R2228	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
Q64008	2SD1624-S	TRANSISTOR	1		R2229	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
Q64009	2SD1819A-R	TRANSISTOR	1		R2230	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	1	
Q64010, 11	2SB1219A-R	TRANSISTOR	2		R2231-41	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	11	
Q64012	2SD1819A-R	TRANSISTOR	1		R2242	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
Q64013	2SB1073-R	TRANSISTOR	1		R2243	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
Q64014, 15	2SD1624-S	TRANSISTOR	2		R2245	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
Q64016	2SB1219A-R	TRANSISTOR	1		R2301	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
Q64017	2SB1073-R	TRANSISTOR	1		R2302	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1	
Q64018	2SD1624-S	TRANSISTOR	1		R2303	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
Q64019, 20	2SD1819A-R	TRANSISTOR	2		R2304	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
Q64021	2SB1219A-R	TRANSISTOR	1		R2305	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1	
Q64022	2SB1073-R	TRANSISTOR	1		R2306	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
Q64023	2SB1219A-R	TRANSISTOR	1		R2307	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
Q64024	2SD1819A-R	TRANSISTOR	1		R2308	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
Q64025	2SB1073-R	TRANSISTOR	1		R2309	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
Q64026	2SB1219A-R	TRANSISTOR	1		R2310	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	1	
Q64027	2SD1624-S	TRANSISTOR	1		R2311	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
Q64028	2SB1073-R	TRANSISTOR	1		R2312	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	1	
Q64029	2SD1624-S	TRANSISTOR	1		R2313-15	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	3	
Q64030	2SD1819A-R	TRANSISTOR	1		R2316	ERJ3GEYJ564	M. RESISTOR CH 1/16W 560K	1	
Q64031	2SD1624-S	TRANSISTOR	1		R2317	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
Q64032	2SB1073-R	TRANSISTOR	1		R2318	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
Q64033	2SB1219A-R	TRANSISTOR	1		R2319	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
Q64034	2SD1624-S	TRANSISTOR	1		R2320, 21	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
Q64035	2SD1819A-R	TRANSISTOR	1		R2322	ERJ3GEYJ823	M. RESISTOR CH 1/16W 82K	1	
Q64201	2SD1624-S	TRANSISTOR	1		R2323	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
Q64202	2SB1073-R	TRANSISTOR	1		R2324	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
Q64203	2SD1819A-R	TRANSISTOR	1		R2326	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
					R2327	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
QR2401, 02	UN5213	TRANSISTOR-RESISTOR	2		R2328	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1	
QR2450, 51	UN5213	TRANSISTOR-RESISTOR	2		R2329	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
QR2501, 02	UN5213	TRANSISTOR-RESISTOR	2		R2331	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
QR2703, 04	UN5213	TRANSISTOR-RESISTOR	2		R2334	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
QR64001	UN5114	TRANSISTOR-RESISTOR	1		R2336, 37	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
QR64002	UN5214	TRANSISTOR-RESISTOR	1		R2402	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
QR64003	UN5114	TRANSISTOR-RESISTOR	1		R2404	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
QR64004-0	UN5214	TRANSISTOR-RESISTOR	3		R2405	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
QR64007	UN5114	TRANSISTOR-RESISTOR	1		R2409	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
QR64008	UN5214	TRANSISTOR-RESISTOR	1		R2411	VRE0071E182	M. RESISTOR CH 1/16W 1.8K	1	
QR64009	UN5114	TRANSISTOR-RESISTOR	1		R2412	ERJ12YJ2R2	M. RESISTOR CH 1/2W 2.2	1	
QR64010, 1	UN5214	TRANSISTOR-RESISTOR	2		R2415	ERJ12YJ2R2	M. RESISTOR CH 1/2W 2.2	1	
QR64012, 1	UN5114	TRANSISTOR-RESISTOR	2		R2421	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	
QR64014	UN5214	TRANSISTOR-RESISTOR	1		R2423	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
QR64015, 1	UN5114	TRANSISTOR-RESISTOR	2		R2428, 29	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	2	
QR64017	UN5211	TRANSISTOR-RESISTOR	1		R2432	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	
QR64201-1	UN5213	TRANSISTOR-RESISTOR	11		R2436	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1	
QR64212	UN5114	TRANSISTOR-RESISTOR	1		R2443	ERJ3GEYJ271	M. RESISTOR CH 1/16W 270	1	
QR64213, 1	UN5214	TRANSISTOR-RESISTOR	2		R2450, 51	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
					R2452	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R2106	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1		R2453	VRE0071E103	M. RESISTOR CH 1/16W 10K	1	
R2107	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		R2454	VRE0071E182	M. RESISTOR CH 1/16W 1.8K	1	
R2108	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1		R2455, 56	ERJ12YJ2R2	M. RESISTOR CH 1/2W 2.2	2	
R2109	ERJ3GEYJ124	M. RESISTOR CH 1/16W 120K	1		R2457-59	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	3	
R2110	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1		R2460	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
R2111	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R2461	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	
R2112, 13	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2		R2462	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1	
R2114	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		R2463	ERJ3GEYJ271	M. RESISTOR CH 1/16W 270	1	
R2115-20	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	6		R2465	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R2121-24	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	4		R2467	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R2125	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1		R2468-71	VRE0071E563	M. RESISTOR CH 1/16W 56K	4	
R2126	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		R2472, 73	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	2	
R2127	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R2474	ERJ3GEYJ883	M. RESISTOR CH 1/16W 88K	1	
R2128	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1		R2476	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R2201, 02	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2		R2477, 78	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	2	
R2203, 04	VRE0071E103	M. RESISTOR CH 1/16W 10K	2		R2479-82	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	4	
R2205	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		R2501, 02	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	2	
R2206	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1		R2503, 04	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	2	
R2207, 08	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	2		R2505, 06	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	2	
R2209-12	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	4		R2507, 08	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R2213, 14	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2		R2509, 10	ERJ3GEYJ681	M. RESISTOR CH 1/8W 680	2	
R2221, 22	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2		R2511	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R2512	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	
R2513, 14	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R2515-20	ERJ8GEYJ1R0	M. RESISTOR CH 1/8W 1	6	
R2522	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1	
R2523, 24	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	2	
R2525	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1	
R2526	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R2527	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R2528	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R2529	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R2530	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R2531	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R2532	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R2533	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R2534, 35	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R2536	ERJ3GEYJ394	M. RESISTOR CH 1/16W 390K	1	
R2537, 38	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R2539	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	
R2540	ERJ3GEYJ394	M. RESISTOR CH 1/16W 390K	1	
R2541	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R2542	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1	
R2543	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R2544	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	
R2545	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R2546	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R2601, 02	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R2603	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R2604, 05	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R2606	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R2607	ERJ8GEYJ681	M. RESISTOR CH 1/8W 680	1	
R2608	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R2609	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	1	
R2610	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R2612	VRE0071E183	M. RESISTOR CH 1/16W 18K	1	
R2614	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	1	
R2615	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R2618	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R2619	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R2622	ERJ8GEYJ681	M. RESISTOR CH 1/8W 680	1	
R2623	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R2624	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R2625	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R2627, 28	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R2629, 30	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R2701, 02	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	2	
R2703	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R2704	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R2705	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R2706	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R2711	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	
R2712	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
R2713	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R2714	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R2715	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R2719	ERJ3GEYJ823	M. RESISTOR CH 1/16W 82K	1	
R2720	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	
R2722	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	1	
R2723	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R2724	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	1	
R2725	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R2726	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R2727	ERJ3GEYJ823	M. RESISTOR CH 1/16W 82K	1	
R2728	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R2730, 31	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	2	
R2732, 33	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R2734, 35	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R2736	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R2801	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R2802	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R2803, 04	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R2806	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R2808	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R2901, 02	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R2903	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R2904	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R2905	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R2906	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R2907	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R2908	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R2909	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R2911	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R2912	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R2914	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R2915	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R2916	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	1	
R2917	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R2919	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	1	
R2920	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R2921	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R2922, 23	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R2924	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	1	
R2925, 26	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R2928	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R2929	ERJ3GEYJ124	M. RESISTOR CH 1/16W 120K	1	
R2930	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R2931	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	1	
R2932	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R2933	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R2934	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R2935	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R2937	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R2942	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R2944	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R2949	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	
R2950	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
R2951	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R2952	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R2959, 60	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	2	
R2961	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R2963	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R64001	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R64002	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R64003	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R64004	ERJ6GEYJ681	M. RESISTOR CH 1/10W 680	1	
R64005	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R64006, 07	ERJ6GEYJ681	M. RESISTOR CH 1/10W 680	2	
R64008	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	1	
R64009	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R64010	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	1	
R64011	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	1	
R64012, 13	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R64014, 15	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	2	
R64016, 17	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	2	
R64018	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R64019	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R64020	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	1	
R64021	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	1	
R64022	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	1	
R64023	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R64024	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	1	
R64025, 26	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R64027	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	1	
R64028	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R64029, 30	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	2	
R64031	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	1	
R64032-34	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	3	
R64035	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R64036	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R64037-39	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	3	
R64040	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	1	
R64041	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R64042	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R64043, 44	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R64045, 46	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	2	
R64047, 48	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	2	
R64049	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	1	
R64050	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	1	
R64051	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R64052	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R64053	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R64054, 55	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2				MISCELLANEOUS		
R64056	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1						
R64057, 58	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	2			VSC4607	SHIELD CASE	1	
R64059, 60	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	2			VJF1310	CONNECTOR HOLDER	2	
R64061	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1						
R64062, 63	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	2						
R64064	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		■ E18	VEP80856A	CARRIGE P.C. BOARD	1	(RTL)
R64065	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	1						
R64066	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	1						
R64067	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		P1	VJP1249T	CONNECTOR (MALE) 9P	1	
R64068	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	1		P2	VJS2889A012	CONNECTOR (FEMALE)	1	
R64069	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		P3	VJS2889A016	CONNECTOR (FEMALE)	1	
R64070	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	1						
R64071	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R1-R7	ERDS2TJ221	C. RESISTOR 1/4W 220	7	
R64072	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	1						
R64073	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1						
R64074	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	1		■ E19	VEP06B55B	DISPLAY CONTROL P.C. BOARD	1	(RTL)
R64075	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1						
R64076	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	1						
R64077, 78	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	2		C68009	ECEV1CV220Q	E. CAPACITOR CH 16V 22U	1	
R64079	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		C68010	ECEVOJV220Q	E. CAPACITOR CH6. 3V 22U	1	
R64080	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	1		C68011-14	ECEV1EVAR7Q	E. CAPACITOR CH 25V 4. 7U	4	
R64081	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		C68015-18	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	4	
R64082, 83	ERJ12YJ3R3	M. RESISTOR CH 1/2W 3. 3	2		C68019	ECEV1EV330Q	E. CAPACITOR CH 25V 33U	1	
R64084	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	1		C68020	ECUM1H103ZFN	C. CAPACITOR CH 50V 0. 01U	1	
R64085	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		C68021, 22	ECUM1H180JCN	C. CAPACITOR CH 50V 18P	2	
R64086	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		C68038	ECUM1H103ZFN	C. CAPACITOR CH 50V 0. 01U	1	
R64087	ERJ12YJ3R3	M. RESISTOR CH 1/2W 3. 3	1		C68039	ECEVOJV101Q	E. CAPACITOR CH6. 3V 100U	1	
R64088, 89	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	2		C68040	ECUX1E104KBN	C. CAPACITOR CH 25V 0. 1U	1	
R64090	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		C68041	ECEV1HV010Q	E. CAPACITOR CH 50V 1U	1	
R64091-93	ERJ12YJ3R3	M. RESISTOR CH 1/2W 3. 3	3		C68042	ECEV1EV330Q	E. CAPACITOR CH 25V 33U	1	
R64094	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		C68043	ECUM1H102JCN	C. CAPACITOR CH 50V 1000P	1	
R64095	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		C68044	ECUM1H103KBN	C. CAPACITOR CH 50V 0. 01U	1	
R64096	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		C68045	EEUFA1E181	E. CAPACITOR 25V 180U	1	
R64097-02	ERJ12YJ3R3	M. RESISTOR CH 1/2W 3. 3	6		C68047	ECUM1H101JCN	C. CAPACITOR CH 50V 100P	1	
R64103	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		C68048	EEUFA1E181	E. CAPACITOR 25V 180U	1	
R64104	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1		C68049	ECEV1VW220Q	E. CAPACITOR CH 35V 22U	1	
R64105, 06	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2		C68051	ECUM1H103KBN	C. CAPACITOR CH 50V 0. 01U	1	
R64107	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		C68052, 53	ECUM1H103ZFN	C. CAPACITOR CH 50V 0. 01U	2	
R64201	ERJ8GEYJ222	M. RESISTOR CH 1/8W 2. 2K	1		C68054	ECEV1VW220Q	E. CAPACITOR CH 35V 22U	1	
R64202	ERJ6GEYG271	M. RESISTOR CH 1/10W 270	1		C68062	ECUM1H103ZFN	C. CAPACITOR CH 50V 0. 01U	1	
R64203	ERJ8GEYOR00	M. RESISTOR CH 1/10W 0	1		C68067-69	ECUM1H104ZFN	C. CAPACITOR CH 50V 0. 1U	3	
R64204	ERJ8GEYJ101	M. RESISTOR CH 1/8W 100	1		C68070, 71	ECEV1HV010Q	E. CAPACITOR CH 50V 1U	2	
R64205	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		C68072-74	ECUM1H104ZFN	C. CAPACITOR CH 50V 0. 1U	3	
R64206	ERJ8GEYJ101	M. RESISTOR CH 1/8W 100	1		C68075	ECUM1H103KBN	C. CAPACITOR CH 50V 0. 01U	1	
R64207	ERJ8GEYJ151	M. RESISTOR CH 1/8W 150	1		C68078, 79	ECUM1H104ZFN	C. CAPACITOR CH 50V 0. 1U	2	
R64208	ERJ8GEYJ221	M. RESISTOR CH 1/8W 220	1		C68080-83	ECUM1H103ZFN	C. CAPACITOR CH 50V 0. 01U	4	
R64209	ERJ6GEYG271	M. RESISTOR CH 1/10W 270	1						
R64210, 11	ERJ8GEYJ151	M. RESISTOR CH 1/8W 150	2		D68001	SFPB-54	DIODE	1	
R64212-18	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	7		D68002	MA115	DIODE	1	
R64223, 24	ERJ8GEYJ102	M. RESISTOR CH 1/8W 1K	2		D68004-06	MA153	DIODE	3	
R64225	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		D68019	MA4056-M	DIODE	1	
R64226	ERJ8GEYOR00	M. RESISTOR CH 1/8W 0	1		D68024	SFPB-76V	DIODE	1	
R64229	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		D68025, 26	MA151K	DIODE	2	
R64230	ERJ3GEYG472	M. RESISTOR CH 1/16W 4. 7K	1		D68030	MA165	DIODE	1	
R64231	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1						
TP201-05	EYF6CU	TEST POINT	5		FL68001	VLF1016A470	FILTER	1	
TP301-05	EYF6CU	TEST POINT	5						
TP701-04	EYF6CU	TEST POINT	4		IC68001	UPD75236J037	IC	1	
TP2401	EYF6CU	TEST POINT	1		IC68002	TL1451QNS	IC	1	
TP2403, 04	EYF6CU	TEST POINT	2		IC68004	MN1382-R	IC	1	
TP2451	EYF6CU	TEST POINT	1		IC68005, 06	BA6138F	IC	2	
TP2453, 54	EYF6CU	TEST POINT	2		IC68007	M62353GP	IC	1	
TP2801	EYF6CU	TEST POINT	1		IC68008	XC62AP5002M	IC	1	
TP2903	EYF6CU	TEST POINT	1						
TP2906	EYF6CU	TEST POINT	1		L68001	VLQ0407101K	COIL 100UH	1	
					L68004	VLQ0319K101	COIL 100UH	1	
TP6201	EYF6CU	TEST POINT	1						
VR2201	EVW7JGA00B15	V. RESISTOR 100K	1		P68001, 02	VJP1231T	CONNECTOR (MALE) 4P	2	
X2101	VXS0821	CRYSTAL OSCILLATOR	1		P68003	VJS3406B020	CONNECTOR (FEMALE)	1	
X2201	VXS0645	CRYSTAL OSCILLATOR	1		P68005, 06	VJS3406B020	CONNECTOR (FEMALE)	2	
					P68007	VJP3076	CONNECTOR (MALE)	1	
					P68008	VJP3080	CONNECTOR (MALE)	1	
					P68009	VJS3406B020	CONNECTOR (FEMALE)	1	
					P68011	VJP1230T	CONNECTOR (MALE) 3P	1	

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
P68012, 13	VJP3826A016	CONNECTOR (MALE)	2	
P68014	VJP3529	CONNECTOR (MALE)	1	
Q68001	2SB709A-R	TRANSISTOR	1	
Q68002	2SD601A-R	TRANSISTOR	1	
Q68003	2SC4408	TRANSISTOR	1	
Q68004, 05	2SJ132-Z	TRANSISTOR	2	
Q68012, 13	2SD602A-R	TRANSISTOR	2	
QR68001, 01	MUN2213	TRANSISTOR-RESISTOR	2	
QR68005	XN1114	TRANSISTOR-RESISTOR	1	
QR68006	MUN2213	TRANSISTOR-RESISTOR	1	
QR68007, 01	XN1213	TRANSISTOR-RESISTOR	2	
R68001, 02	VRE0034E333	M. RESISTOR CH 1/10W 33K	2	
R68003-05	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	3	
R68013	ERJ6GEYG683	M. RESISTOR CH 1/10W 68K	1	
R68014	ERJ6GEYG154	M. RESISTOR CH 1/10W 150K	1	
R68015-17	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	3	
R68022-24	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	3	
R68029	VRE0034E682	M. RESISTOR CH 1/10W 6.8K	1	
R68030	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R68031	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R68032, 33	ERJ6GEYF333	M. RESISTOR CH 1/10W 33K	2	
R68034-37	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K	4	
R68038-41	ERJ6GEYG302	M. RESISTOR CH 1/10W 3K	4	
R68042, 43	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	2	
R68044	ERJ6GEYJ471	M. RESISTOR CH 1/10W 470	1	
R68045-47	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	3	
R68048-55	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	8	
R68056	ERJ6GEYF822	M. RESISTOR CH 1/10W 8.2K	1	
R68057	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R68059	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K	1	
R68060	VRE0034E823	M. RESISTOR CH 1/10W 82K	1	
R68061	VRE0034E332	M. RESISTOR CH 1/10W 3.3K	1	
R68062	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R68064	ERJ6GEYJ471	M. RESISTOR CH 1/10W 470	1	
R68066	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	1	
R68067	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R68068	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K	1	
R68070-72	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	3	
R68074-77	ERJ6GEYG153	M. RESISTOR CH 1/10W 15K	4	
R68078-88	ERJ6GEYG683	M. RESISTOR CH 1/10W 68K	11	
R68089	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	1	
R68090	ERJ6GEYG153	M. RESISTOR CH 1/10W 15K	1	
R68091, 92	ERJ6GEYG683	M. RESISTOR CH 1/10W 68K	2	
R68093	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1	
R68094	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K	1	
R68095	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1	
R68096	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K	1	
R68103	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R68107	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R68115	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R68119	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R68125-28	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	4	
R68137	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R68141	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R68142-46	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	5	
R68149-56	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	8	
R68161	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R68163, 64	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	2	
R68165, 66	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K	2	
R68173-75	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	3	
R68178-82	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	5	
R68183, 84	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	2	
SW68001	VSS0367-08B	SWITCH	1	
T68001	VLT0880	TRANSFORMER	1	
T68001	VJR0098	TEST POINT	1	
VR68013-1	EVN32CA00823	V. RESISTOR 2K	4	
X68001	VSX0871	CRYSTAL OSCILLATOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
		MISCELLANEOUS		
	VMX2644	SPACER	2	
■ E20	VEPOOX89A	DISPLAY P.C. BOARD	1	(RTL)
DP68101, 01	VSL0469	DISPLAY	2	
P68101, 02	VJS2710B020	CONNECTOR (FEMALE)	2	
		MISCELLANEOUS		
	VMG1048	DISPLAY HOLDER GUM	4	
■ E21	VEPOOX90B	LCD CONTROL R P.C. BOARD	1	(RTL)
P68202	VJP1883T	CONNECTOR (MALE)	1	
P68204	VJP1873T	CONNECTOR (MALE)	1	
P68205	VJP1874T	CONNECTOR	1	
Q68201	2SB643	TRANSISTOR	1	
R68201	EROS2CKG3002	M. RESISTOR 1/4W 30K	1	
R68202	EROS2CKG3902	M. RESISTOR 1/4W 39K	1	
R68203	ERDS2TJ104	C. RESISTOR 1/4W 100K	1	
R68204	ERDS2TJ332	C. RESISTOR 1/4W 3.3K	1	
SW68201	VSS0162	SWITCH	1	
SW68202	EVQGSB04B	SWITCH	1	
SW68204	EVQGSB04B	SWITCH	1	
VR68201	VRV0270	SWITCH	1	
■ E22	VEPOOX91B	LCD CONTROL L P.C. BOARD	1	(RTL)
P68201	VJP1879T	CONNECTOR (MALE)	1	
P68203	VJP1873T	CONNECTOR (MALE)	1	
P68206	VJP1876T	CONNECTOR (MALE)	1	
R68201	EROS2CKG3002	M. RESISTOR 1/4W 30K	1	
R68202	EROS2CKG3902	M. RESISTOR 1/4W 39K	1	
SW68201	VSS0162	SWITCH	1	
SW68202-01	EVQGSB04B	SWITCH	3	
VR68201, 01	VRV0270	SWITCH	2	
■ E23	VEPOOY21A	TOP SW P.C. BOARD	1	(RTL)
P1	VJP1243T	CONNECTOR (MALE) 3P	1	
SW1	VSM0168	SWITCH	1	
■ E24	VEPOOY22A	TOP LED P.C. BOARD	1	(RTL)
LD1, D2	VLL0200	LAMP	2	
P1	VJP1243T	CONNECTOR (MALE) 3P	1	
R1, R2	ERDS2TJ121	C. RESISTOR 1/4W 120	2	
		MISCELLANEOUS		
	VMX1436	LED SPACER	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	E25	VEP06B54B	KEY BOARD P.C. BOARD	1 (RTL)
C85001	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C85002	ECEV1CV47QO	E. CAPACITOR CH 18V 47U	1	
C85003	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C85004	ECEV1CV10QO	E. CAPACITOR CH 18V 10U	1	
C85007	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C85008	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C85009	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C85010-16	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	7	
C85017	ECEV1HV3R3Q	E. CAPACITOR CH 50V 3.3U	1	
C85018, 19	ECUM1H120JCN	C. CAPACITOR CH 50V 12P	2	
C85020-22	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	3	
C85023-30	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	8	
C85032-36	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	5	
C85037, 38	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	2	
C85039-43	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	5	
C85044	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C85045	ECEV1CV47QO	E. CAPACITOR CH 18V 47U	1	
C85046, 47	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	2	
C85048	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
D85001	MA151K	DIODE	1	
D85002-10	MA151WA	DIODE	9	
D85011	MA151K	DIODE	1	
D85012-19	MA151WA	DIODE	8	
D85020-2B	MA151K	DIODE	9	
D85029-31	HDSP-U111	DIODE	3	
D85032	MA151K	DIODE	1	
D85033	MA151WA	DIODE	1	
I085001	VS12494	IC	1	
I085002	DS1230Y100	IC	1	
I085003	D703002G0016	IC	1	
I085004, 0	IDT7132L155F	IC	2	
I085006	TL7706CP8B	IC	1	
I085007	T74VHC32F	IC	1	
I085008, 0	T74VHC573F	IC	2	
I085010	M89363BHPF	IC	1	
I085011	UPD72001GC11	IC	1	
I085012	T74VHC32F	IC	1	
I085013	T74VHC138F	IC	1	
I085014	T74VHC573F	IC	1	
I085015	T74VHC32F	IC	1	
I085016	T74VHC245F	IC	1	
I085017	T74VHC11F	IC	1	
I085018	T74VHC138F	IC	1	
I085019, 2	UPC339G2	IC	2	
I085021	75ALS340S1S	IC	1	
I085023	T74VHC393F	IC	1	
I085024	T74VHC04F	IC	1	
I085026	LVXC3245GSC	IC	1	
I085027, 2	T74VHC7541F	IC	2	
I085029	T74VHC541F	IC	1	
I085030	LVXC3245GSC	IC	1	
I085031, 3	T74VHC7541F	IC	2	
I85001	VJS2336A040	CONNECTOR (FEMALE) 5P	1	
I85002	VJS3096628	CONNECTOR (FEMALE)	1	
L85001-03	VLQ0319K10U	COIL 10UH	3	
P85001	VJS3791B050	CONNECTOR (FEMALE)	1	
P85002, 03	VJS3791B030	CONNECTOR (FEMALE)	2	
P85004, 05	VJP1877T	CONNECTOR (MALE)	2	
P85006	VJP1874T	CONNECTOR	1	
P85007, 08	VJP1243T	CONNECTOR (MALE) 3P	2	
Q85002-04	MSD802-R	TRANSISTOR	3	
Q85005-12	MSB709-R	TRANSISTOR	8	
Q85013-20	MSD802-R	TRANSISTOR	8	

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	VQ04339	INTERLOCK ROD	1	
	VXU1482	KEY TOP SET	1	
	VJF1309	PIERCE HOLDER	3	
	VMP5302	P. C. B. HOLDER ANGLE	2	
	VMP2597	SW HOLDER ANGLE	1	
	XTV28+6FFZ	SCREW	2	
	XYE3+EF8	SCREW	2	
■ E26	VEP08B53B	AV SYSCON P. C. BOARD	1 (RTL)	
C80001-03	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
C80004, 05	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	2	
C80006-10	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	5	
C80011, 12	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	2	
C80013	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C80014, 15	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	2	
C80016-18	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
C80019	ECEVOJV470Q	E. CAPACITOR CH6. 3V 47U	1	
C80020-23	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	4	
C80024	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C80025	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C80101	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C80102	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C80103	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C80201-08	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	8	
C80209	ECUX1H272KBV	C. CAPACITOR CH 50V 2700P	1	
C80301-04	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	4	
C80402	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1	
C80403-05	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
C80407	VCK0152	C. CAPACITOR	1	
C80408	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C80409, 10	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	2	
C80411	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C80412	VCK0152	C. CAPACITOR	1	
C80501-03	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
C80701-03	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
C80704, 05	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	2	
C80706-10	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	5	
C80711, 12	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	2	
C80713	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C80714, 15	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	2	
C80716	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C80717	ECEVOJV470Q	E. CAPACITOR CH6. 3V 47U	1	
C80718-23	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	6	
C80724	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C80801	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C80802	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C80803	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C80901-08	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	8	
C80909	ECUX1H272KBV	C. CAPACITOR CH 50V 2700P	1	
C81001-04	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	4	
C81102	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1	
C81103-05	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
C81106, 07	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	2	
C81108	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C81201-03	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
C81401-04	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	4	
C81601, 02	VCK0152	C. CAPACITOR	2	
C81603	ECEVOJV470Q	E. CAPACITOR CH6. 3V 47U	1	
C81604	ECEV1HVR33Q	E. CAPACITOR CH 50V 0.33U	1	
C81605	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C81606, 07	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	2	
C81901, 02	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	2	
D80001-05	MA143	DIODE	5	
D80201	MA142K	DIODE	1	
D80301	MA143	DIODE	1	
D80401-04	MA142WK	DIODE	4	
D80405	MA142K	DIODE	1	
D80701-04	MA143	DIODE	4	
D81001	MA143	DIODE	1	
D81101-04	MA142WK	DIODE	4	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
FL81601-01	VLF0941C223	FILTER	3	
IC80001	M31010M6104H	IC	1	
IC80003	TCVHC14FS	IC	1	
IC80004	TCVHC00FS	IC	1	
IC80005	TCVHC04FS	IC	1	
IC80006	TCVHC32FS	IC	1	
IC80007	TCVHC74FS	IC	1	
IC80008	TCVHC126FS	IC	1	
IC80009, 1	TCVHC138FS	IC	2	
IC80101	M51016ATP10V	IC	1	
IC80102	VS12332D	IC	1	
IC80201	T163G26-1019	IC	1	
IC80202	TVHCT541FS	IC	1	
IC80301	TCVHC14FS	IC	1	
IC80302	TCVHC04FS	IC	1	
IC80303	UPC393G2	IC	1	
IC80401	TCVHC08FS	IC	1	
IC80402	MC14538BF	IC	1	
IC80403	TVHC123AFS	IC	1	
IC80404	TCVHC32FS	IC	1	
IC80405	MC14538BF	IC	1	
IC80501	TCVHC245FS	IC	1	
IC80502, 0	TL0X16244A	IC	2	
IC80701	M31010M6104H	IC	1	
IC80703	TCVHC14FS	IC	1	
IC80704	TCVHC00FS	IC	1	
IC80705	TCVHC04FS	IC	1	
IC80706	TCVHC32FS	IC	1	
IC80707	TCVHC74FS	IC	1	
IC80708	TCVHC126FS	IC	1	
IC80709, 1	TCVHC138FS	IC	2	
IC80801	M51016ATP10V	IC	1	
IC80802	VS12332D	IC	1	
IC80901	T163G26-1019	IC	1	
IC80902	TVHCT541FS	IC	1	
IC81001	TCVHC14FS	IC	1	
IC81002	TCVHC04FS	IC	1	
IC81003	UPC393G2	IC	1	
IC81101	TCVHC08FS	IC	1	
IC81102	MC14538BF	IC	1	
IC81103	TVHC123AFS	IC	1	
IC81104	TCVHC32FS	IC	1	
IC81201	TCVHC245FS	IC	1	
IC81202, 0	TL0X16244A	IC	2	
IC81401	1DT71V321L5F	IC	1	
IC81402	TCVHC04FS	IC	1	
IC81601	S80730ANDT	IC	1	
L60001	VL00319K100	COIL 10UH	1	
L60701	VL00319K100	COIL 10UH	1	
P60601	VJP3949A070H	CONNECTOR (MALE)	1	
P61301	VJP3949A070H	CONNECTOR (MALE)	1	
P61501, 02	VJS3791B030	CONNECTOR (FEMALE)	2	
P61601	VJP3949A080H	CONNECTOR (MALE)	1	
P61701, 02	VJS3791B050	CONNECTOR (FEMALE)	2	
P61801	VJS3791B050	CONNECTOR (FEMALE)	1	
P61901	VJP3949A080H	CONNECTOR (MALE)	1	
Q80001-04	2SB1218A-R	TRANSISTOR	4	
Q80701-04	2SB1218A-R	TRANSISTOR	4	
QR80001	UN5213	TRANSISTOR-RESISTOR	1	
QR80201	UN5213	TRANSISTOR-RESISTOR	1	
QR80401-2	UN5214	TRANSISTOR-RESISTOR	21	
QR80701	UN5213	TRANSISTOR-RESISTOR	1	
QR80901	UN5213	TRANSISTOR-RESISTOR	1	
QR81102-2	UN5214	TRANSISTOR-RESISTOR	20	
R80001	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R80002	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R80003	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R80004	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R80005	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R60007	VRE0034E103	M. RESISTOR CH 1/10W 10K	1		R60713, 14	ERJ3GEYOR00	M. RESISTOR CH 1/10W 0	2	
R60008, 09	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2		R60715	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R60011, 12	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2		R60717	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R60013	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R60718, 19	EXB24V473J	COMBI. R-R 47K	2	
R60014	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1		R60720	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R60015, 16	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2		R60721	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R60017	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		R60725	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R60019	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R60727	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R60020	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		R60728	EXB24V473J	COMBI. R-R 47K	1	
R60021-23	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3		R60729, 30	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R60025	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R60731	EXB24V473J	COMBI. R-R 47K	1	
R60029	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		R60732	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R60031, 32	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2		R60733, 34	EXB24V473J	COMBI. R-R 47K	2	
R60033-35	EXB24V473J	COMBI. R-R 47K	3		R60735, 36	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R60036	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		R60737	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R60037	EXB24V473J	COMBI. R-R 47K	1		R60738	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R60040, 41	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2		R60740	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R60042	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R60741, 42	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	2	
R60044-51	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	8		R60743-50	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	8	
R60052, 53	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	2		R60752	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R60054	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R60754	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R60101, 02	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2		R60801, 02	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R60103	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R60803	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R60104	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1		R60804	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R60204, 05	EXB24V473J	COMBI. R-R 47K	2		R60902	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R60206	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		R60904, 05	EXB24V473J	COMBI. R-R 47K	2	
R60208-16	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	9		R60906	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R60217, 18	EXB24V473J	COMBI. R-R 47K	2		R60907-15	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	9	
R60219	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		R60916, 17	EXB24V473J	COMBI. R-R 47K	2	
R60220	EXB24V473J	COMBI. R-R 47K	1		R60918	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R60221, 22	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2		R60919	EXB24V473J	COMBI. R-R 47K	1	
R60223	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R60920, 21	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R60224, 25	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2		R60922	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R60227-30	EXB24V473J	COMBI. R-R 47K	4		R60924	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R60231	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R60927	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R60232	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1		R60928-31	EXB24V473J	COMBI. R-R 47K	4	
R60301	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R60932	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R60302-06	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	5		R61001	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R60307-11	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	5		R61002-06	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	5	
R60313-16	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	4		R61007-11	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	5	
R60318-21	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4		R61013-16	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	4	
R60322, 23	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2		R61018-21	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R60324	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R61022, 23	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R60325	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		R61024	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R60326, 27	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2		R61025	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R60328, 29	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2		R61026, 27	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R60330	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		R61028, 29	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R60331	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R61030	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R60332	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1		R61031	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R60333	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R61032	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R60334	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1		R61033	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R60335	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R61034	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R60336	ERJ3GEYJ394	M. RESISTOR CH 1/16W 390K	1		R61035	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R60402	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R61036	ERJ3GEYJ394	M. RESISTOR CH 1/16W 390K	1	
R60403	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R61102	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R60404	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R61103	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R60405, 06	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2		R61104	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R60407	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1		R61105, 06	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R60408-12	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	5		R61107	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R60413, 14	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2		R61108-12	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	5	
R60415	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	1		R61114, 15	ERJ3GEYJ394	M. RESISTOR CH 1/16W 390K	2	
R60416	ERJ3GEYJ394	M. RESISTOR CH 1/16W 390K	1		R61117, 18	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R60417, 18	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2		R61119-22	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R60419-22	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4		R61201, 02	EXB24V473J	COMBI. R-R 47K	2	
R60425	ERJ3GEYJ394	M. RESISTOR CH 1/16W 390K	1		R61203-22	EXB24V100J	COMBI. R-R 10	20	
R60426	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		R61223-26	EXB24V473J	COMBI. R-R 47K	4	
R60501, 02	EXB24V473J	COMBI. R-R 47K	2		R61302, 03	EXB24V473J	COMBI. R-R 47K	2	
R60503-22	EXB24V100J	COMBI. R-R 10	20		R61401	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R60523-26	EXB24V473J	COMBI. R-R 47K	4		R61402	EXB24V473J	COMBI. R-R 47K	1	
R60602, 03	EXB24V473J	COMBI. R-R 47K	2		R61601	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R60701, 02	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2		R61602	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1	
R60703	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		R61603	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R60704-08	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	5		R61901	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R60710	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1						
R60711	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1						
					TH60702	ERTD2FFL102S	THERMISTOR 1K	1	

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
TP60001-1	EYF60U	TEST POINT	10	
TP60201	EYF60U	TEST POINT	1	
TP60701-1	EYF60U	TEST POINT	10	
TP60901	EYF60U	TEST POINT	1	
TP61601	EYF60U	TEST POINT	1	
W60101, 02	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0 2	
W60801, 02	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0 2	
X61401	VXS0833	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VKG0295	BOARD SPACER	2	
	VWZ2703	INSULATION SHEET	1	
	VJF1311	CONNECTOR HOLDER	2	
	VJF1310	CONNECTOR HOLDER	2	
■ E27	VEP04642C	REAR JACK P.C. BOARD	1	(RTL) INCLUDING E28
■ E28	VEP00Y20B	MIC AMP P.C. BOARD	1	(RTL) INCLUDED E27
C4001-10	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	10	
C4011-14	ECEV1AN330Q	E. CAPACITOR CH 10V 33U	4	
C4015	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C4016	ECEV1AV330Q	E. CAPACITOR CH 10V 33U	1	
C4017	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C4018	ECEV1AV330Q	E. CAPACITOR CH 10V 33U	1	
C4019-21	ECEV1AN330Q	E. CAPACITOR CH 10V 33U	3	
C4022	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C4023	ECEV1AV330Q	E. CAPACITOR CH 10V 33U	1	
C4024	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C4025	ECEV1AV330Q	E. CAPACITOR CH 10V 33U	1	
C4026, 27	ECEV1N100Q	E. CAPACITOR CH 18V 10U	2	
C4028, 29	ECEV1AV330Q	E. CAPACITOR CH 10V 33U	2	
C4030-33	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	4	
C4034	ECEV10V470Q	E. CAPACITOR CH 18V 47U	1	
C4035	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C4037, 38	ECEV10V470Q	E. CAPACITOR CH 18V 47U	2	
C4042, 43	ECOS1CP682CG	E. CAPACITOR 18V 6800U	2	
C4044	EGA1CHG472	E. CAPACITOR 18V 4700U	1	
C4045	EGA1CHG682	E. CAPACITOR 18V 6800U	1	
C4051	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C4053	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C4055	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C4057	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C4059	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C4066	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C4068	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C4070	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C4072	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C4074	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C4091-94	ECKF1H103ZF	C. CAPACITOR 50V 0.01U	4	
D4001-09	MA151K	DIODE	9	
D4012	MA151WK	DIODE	1	
D4013	MA151WA	DIODE	1	
FL4001, 02	VLF0941C223	FILTER	2	
IC4001, 02	NJM2068MD	IC	2	
J4011, 12	VJS3417	CONNECTOR (FEMALE)	2	
J4013-15	VJS3154	CONNECTOR (FEMALE)	3	
J4021, 22	VJP3417	CONNECTOR (MALE)	2	
J4023-26	VJS3154	CONNECTOR (FEMALE)	4	
J4027	VJP3417	CONNECTOR (MALE)	1	
J4032	VJP3414A009	CONNECTOR (MALE)	1	
J4051, 52	VJS3417	CONNECTOR (FEMALE)	2	
J4053-55	VJS3154	CONNECTOR (FEMALE)	3	
J4061, 62	VJP3417	CONNECTOR (MALE)	2	
J4063-66	VJS3154	CONNECTOR (FEMALE)	4	
J4067	VJP3417	CONNECTOR (MALE)	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
J4072	VJP3414A009	CONNECTOR (MALE)	1	
J4082, 83	VJS3906	CONNECTOR (FEMALE)	2	
L4001-06	VLQ0319K101	COIL 100UH	6	
L4023	VLP0147	COIL	1	
L4025	VLP0147	COIL	1	
L4027	VLP0147	COIL	1	
L4029	VLP0147	COIL	1	
L4031	VLP0147	COIL	1	
L4033	VLP0147	COIL	1	
L4035	VLP0147	COIL	1	
L4037	VLP0147	COIL	1	
L4039	VLP0147	COIL	1	
L4041	VLP0147	COIL	1	
L4043	VLP0147	COIL	1	
L4045	VLP0147	COIL	1	
L4047	VLP0147	COIL	1	
L4049	VLP0147	COIL	1	
L4051	VLP0147	COIL	1	
L4053	VLP0147	COIL	1	
L4055	VLP0147	COIL	1	
L4057	VLP0147	COIL	1	
L4059	VLP0147	COIL	1	
L4061	VLP0147	COIL	1	
L4063-72	VLP0147	COIL	10	
P4001	VJP3949A120H	CONNECTOR (MALE)	1	
P4002, 03	VJP1243T	CONNECTOR (MALE) 3P	2	
P4004-07	VJP1874T	CONNECTOR	4	
P4008	VJS3952A070	CONNECTOR (FEMALE)	1	
P4009	VJS3949A120L	CONNECTOR (FEMALE)	1	
P4010	VJS3952A070	CONNECTOR (FEMALE)	1	
P4011, 12	VJP1875T	CONNECTOR (MALE)	2	
P4013-16	VJR0980	PIN	4	
Q4001-07	YN4601	TRANSISTOR-RESISTOR	7	
Q4008	MSB709-R	TRANSISTOR	1	
Q4008	2SD1330-R	TRANSISTOR	1	
Q4011	YN1213	TRANSISTOR-RESISTOR	1	
QR4001	UN2113	TRANSISTOR-RESISTOR	1	
R4001-16	VRE0034E151	M. RESISTOR CH 1/10W 150	16	
R4017	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	1	
R4018	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R4019	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	1	
R4020	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R4021	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1	
R4022	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	1	
R4023	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R4024	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	1	
R4025	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R4026	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1	
R4027	ERJ6GEYG330	M. RESISTOR CH 1/10W 33	1	
R4028	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	1	
R4029	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R4030	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1	
R4031	ERJ6GEYG330	M. RESISTOR CH 1/10W 33	1	
R4032	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	1	
R4033	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R4034	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1	
R4035	ERJ6GEYG330	M. RESISTOR CH 1/10W 33	1	
R4036	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	1	
R4037	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R4038	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	1	
R4039	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R4040	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1	
R4041	ERJ6GEYG330	M. RESISTOR CH 1/10W 33	1	
R4042	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	1	
R4043	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R4044	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1	
R4045	ERJ6GEYG330	M. RESISTOR CH 1/10W 33	1	
R4046	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	1	
R4047	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R4048	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1	

AJ-LT75E

[illegible]

SERVISING FIXTURES & TOOLS

AJ-LT75E

Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description	Remarks
		SERVICING FIXTURES & TOOLS				
	VFK1145	Back Tension Meter (T2-M30-P)				
	VFK1149	Post Drive				
	VFK71	Dial Torque Gauge (150g)				
	VFK1191	Dial Torque Gauge (45g)				
	VFK1152	Dial Torque Gauge Adaptor				
	VFK0357	Eccentric Screwdriver (1.5)				
	VFK1154	Post Height Fixture				
	VFK1153	Mech. Neutral Plate (Post)				
	VFK0906	OIL				
	VFK1155	Neutral Position Tool (Gold)				
	VFK1156	Neutral Position Tool (Black)				
	VFK1208	Neutral Position Tool (Black With Hole)				
	VFK1150	Nut Driver (5.5mm)				
	VFK1151	Nut Driver (2.5mm)				
	VFK1188	Dial Tension Gauge (30g)				
	VFK0948	Check Light				
	VFK0749	Froiral Grease (for plastic)				
	MOR265	Morlytone Grease (for metal)				
	VFK1146	Philips Driver (Fine) (00-75)				
	VFK1147	Philips Driver (Fine) (0-100)				
	VFK1148	Hex. Driver (1.5)				
	VFK1178	Hex. Driver (0.89)				
	VFK1179	Hex. Driver (0.71)				
	VFK1190	Hex. Wrench				
	VFK1209	Torque Driver (0.4-3Kg)				
	VFK0912	Post Axis Driver (1.5mm)				
	VFK1300	A/D Board (DAQ-12, Quatech)				
	VFK1159	LISTA Software				
	VFK1186	LISTA CABLE				
	VFK0369	Tweezers				
	VFK0371	Radio Prier				
	VFK0372	Cutter Prier				
	VFK0338	Trimmer Adjustment Driver				
	VFK0337	Philips Driver				
	VFM3000EDS	Alignment Tape (DV LISTA)				
	VFM3680KM	Alignment Tape (No. 1)				
	VFM3681KM	Alignment Tape (No. 2)				
	VFM3682KM	Alignment Tape (No. 3)				
	VFM3110EDS	Alignment Tape (DV Color Bar)				
	VFK1160A	RF Adjustment soft				
	VFK1163	RF Adjustment Tool				
	VFK1248A	FLASH ROM VERSION UP SOFTWARE				
	VFK1304	ROM REWRITER				
	VFK1305	120P EXTENDER				
	VFK1307	70P EXTENDER				
	VEK1306	52P EXTENDER				
	VWJ20E5500LO	FLEXIBLE CABLE				

Technical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject : Addition of Front Guide Cover

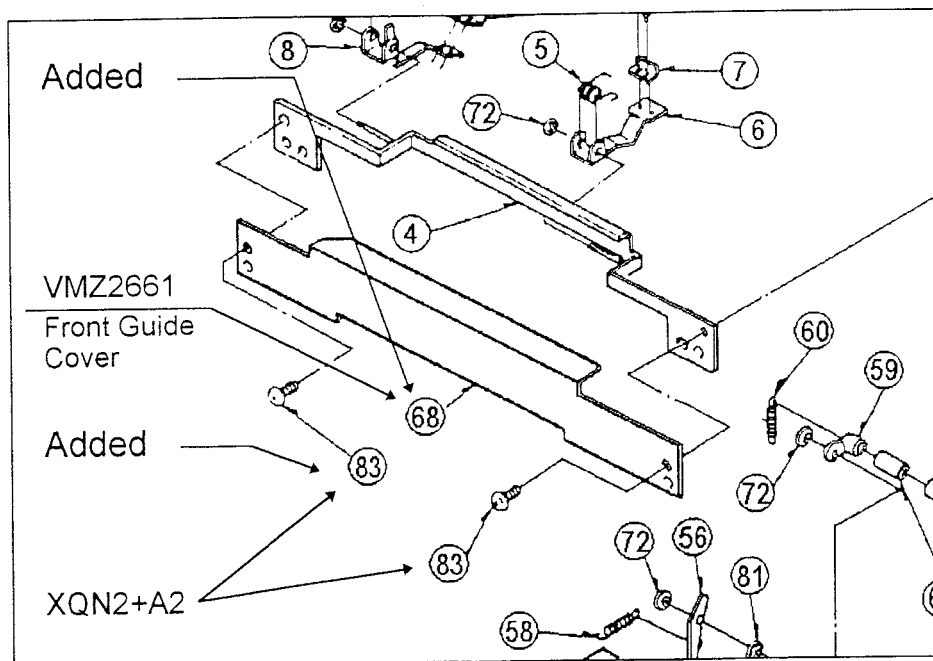
Please use this supplement together with the Service Manual as follows :

Model No.	Bulletin No.	Order No.	Effective from
AJ-LT75E ✓	1	VSD9707M602A	G7TNA0001
AJ-D230E	1	VSD9708M605A	I7TDA0001

Cassette Compartment Assembly

To prevent the dust from coming into the Mechanical Chassis Unit from outside, the Front Guide Cover is added to the Front Guide Panel as shown below.

Part Number		Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
Ref. No.						
68		---	VMZ2661	FRONT GUIDE COVER	0→1	
83		---	XQN2+A2	SCREW	0→2	



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Supplement to the Service Manual

Broadcast Product

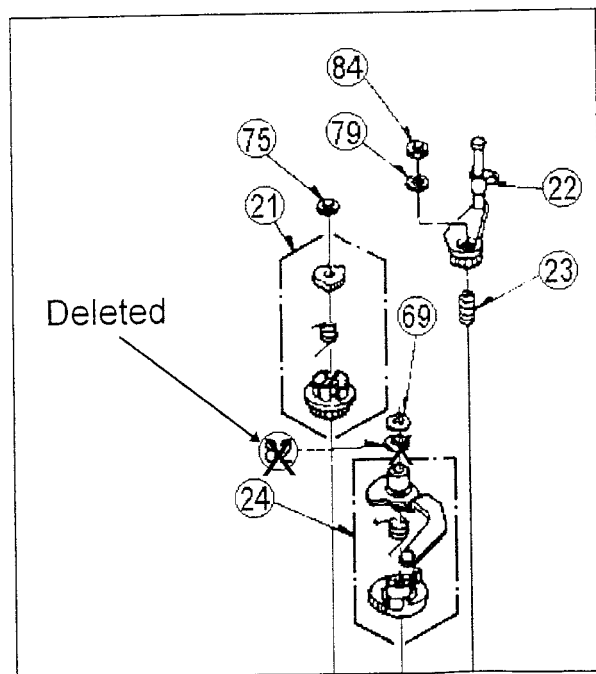
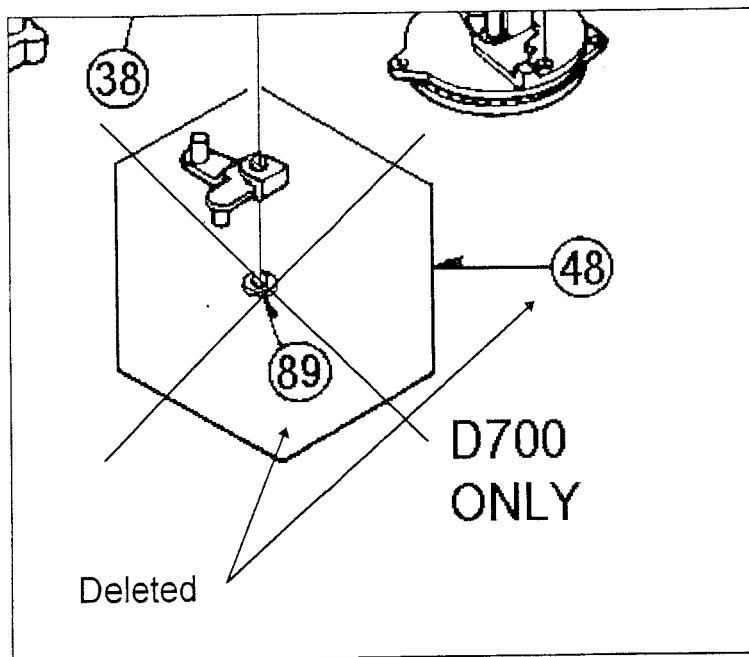
Subject : Service Manual Correction

Please use this supplement together with the Service Manual as follows :

Model No.	Bulletin No.	Order No.	Effective from
AJ-LT75E ✓	2	VSD9707M602A	---
AJ-D230E	2	VSD9708M605	---

Mechanical Chassis Assembly (2)

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
48	VXL2600	---	EJECT ARM U	1→0	
82	XWGV15Z32G	---	WASHER	1→0	
89	VMX1394	---	WASHER	1→0	



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10162

Order No. VSD9709SD603

Technical Bulletin

Supplement to the Service Manual

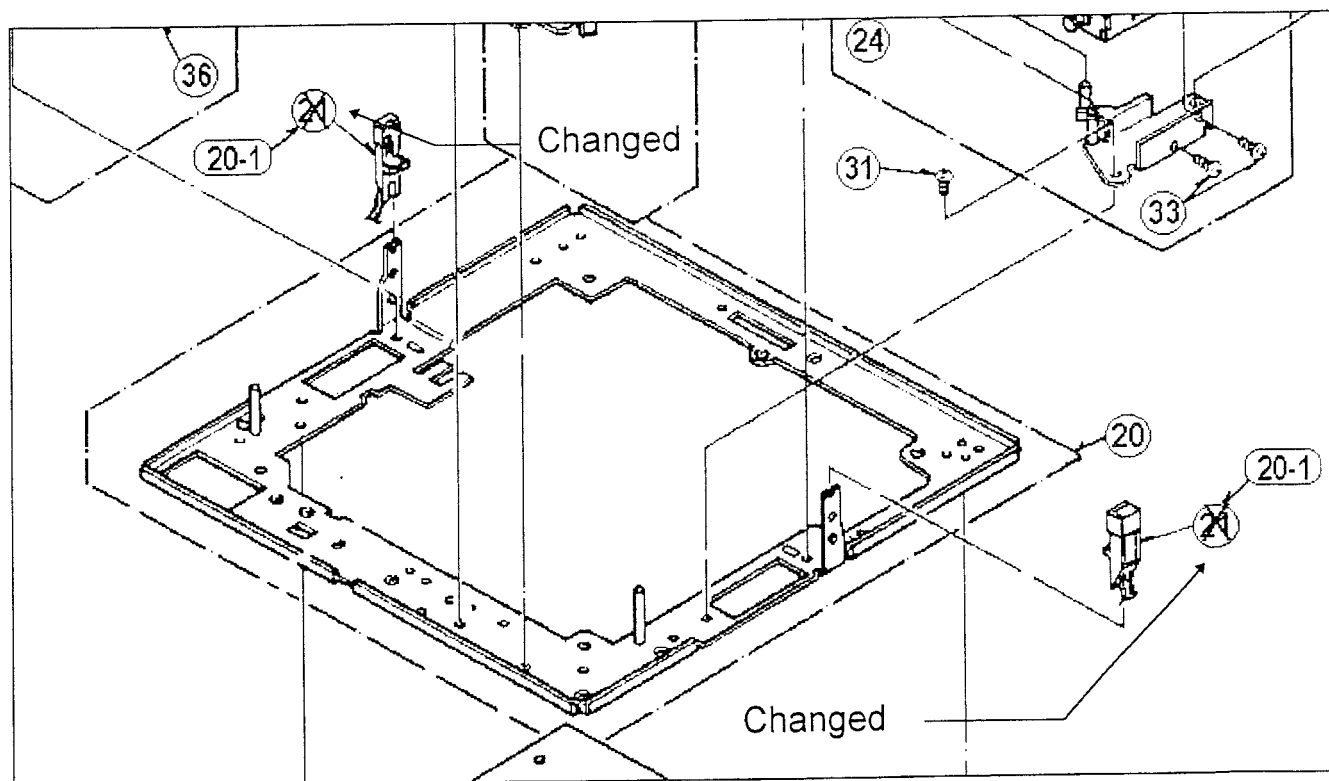
Broadcast Product

Subject : Service Manual Correction

Please use this supplement together with the Service Manual as follows :

Model No.	Bulletin No.	Order No.	Effective from
AJ-LT75E ✓	3	VSD9707M602A	---
AJ-D230E	4	VSD9708M605	---

Sub Chassis Assembly



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Technical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject : Service Manual Correction

Please use this supplement together with the Service Manual as follows :

Model No.	Bulletin No.	Order No.	Effective from
AJ-LT75E ✓	6	VSD9707M602A	---
AJ-D230E	8	VSD9708M605A	---

Cassette Compartment Assembly

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
69	---	VMA9760	LID OPENER ANGLE	0→1	
70	---	VHD0678	SCREW	0→6	
74	XQN16+A2	---	SCREW	6→0	
78	---	XYN2+C3	SCREW	0→2	

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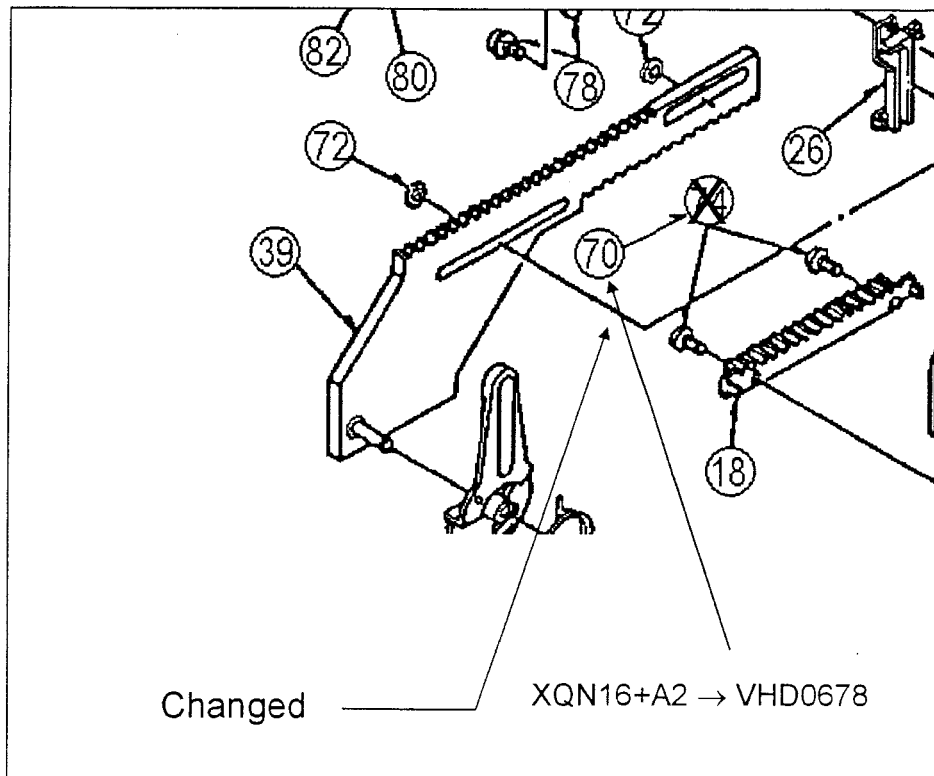


Fig. 1

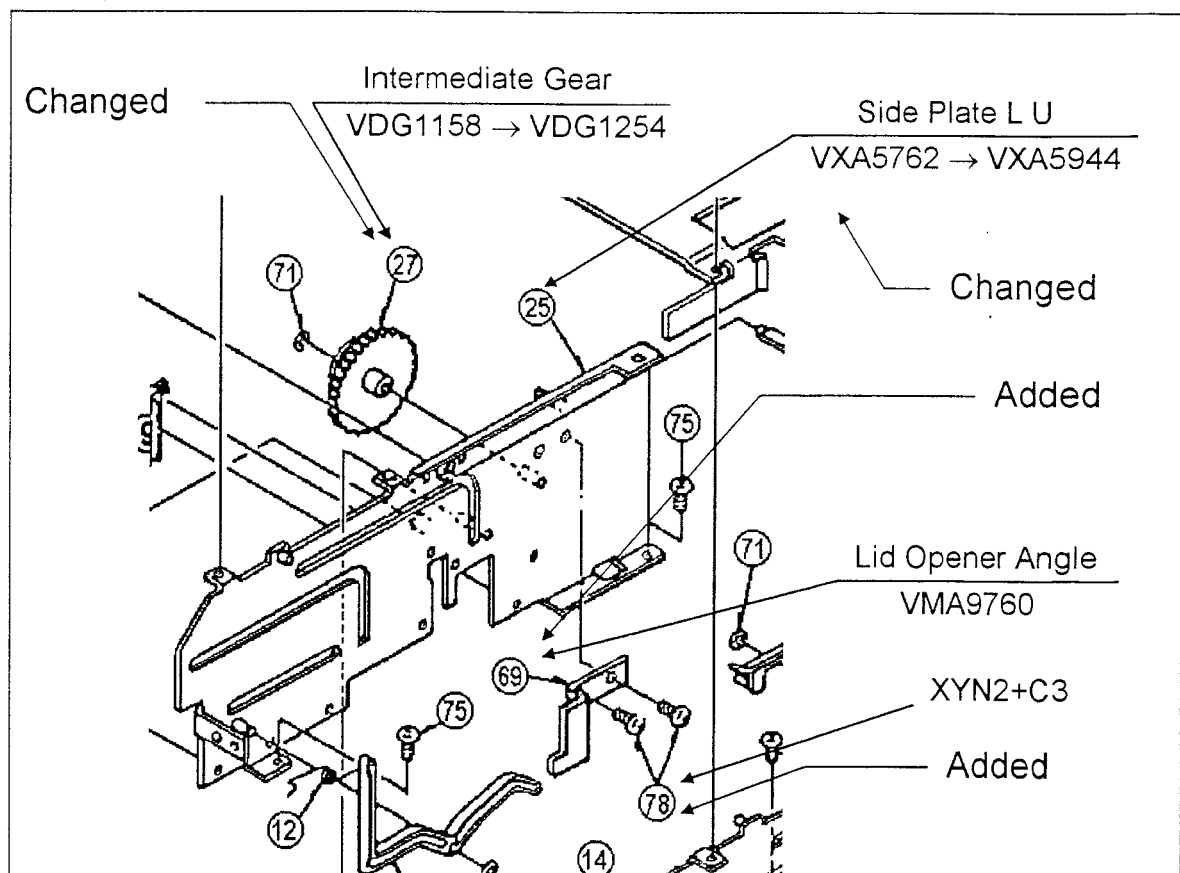


Fig. 2

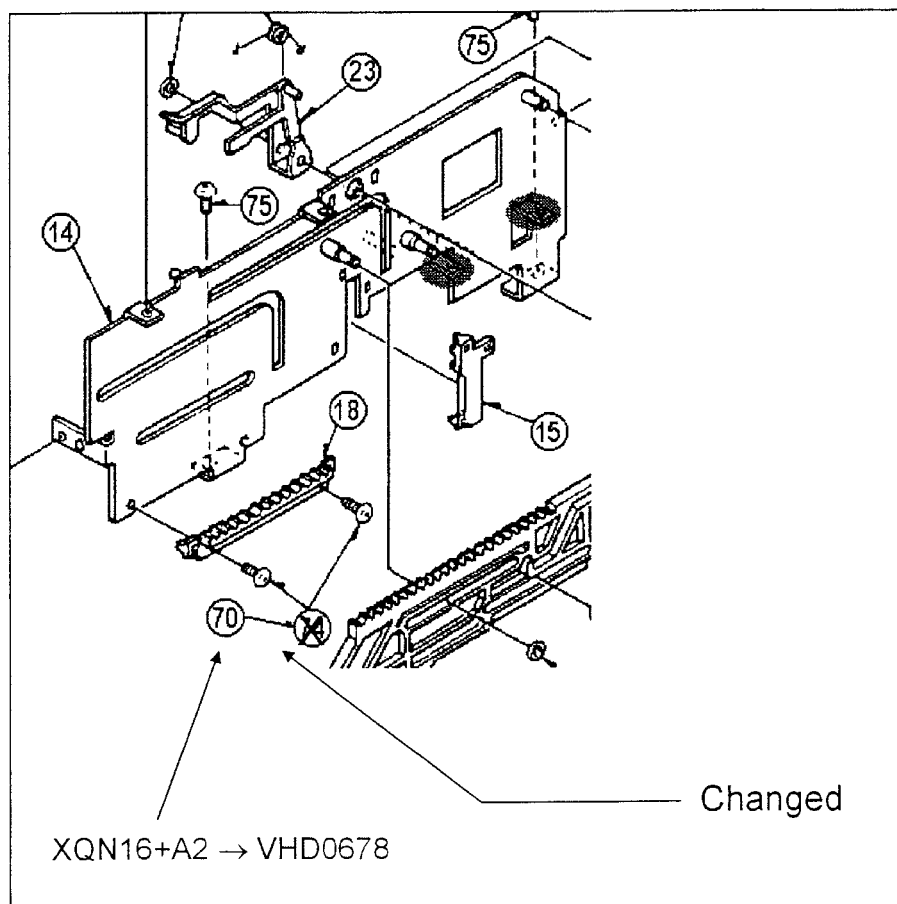


Fig. 3

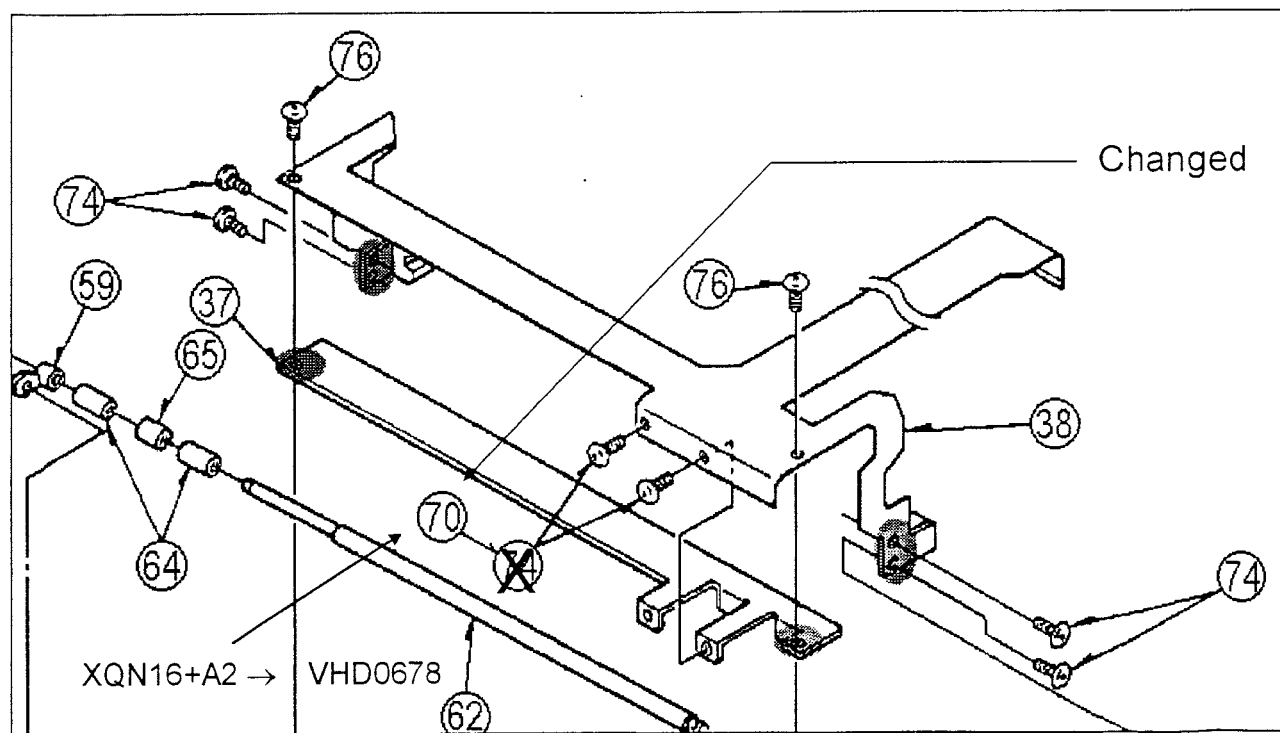


Fig. 4

Technical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject : Improvement of Main P.C. Board Fixing

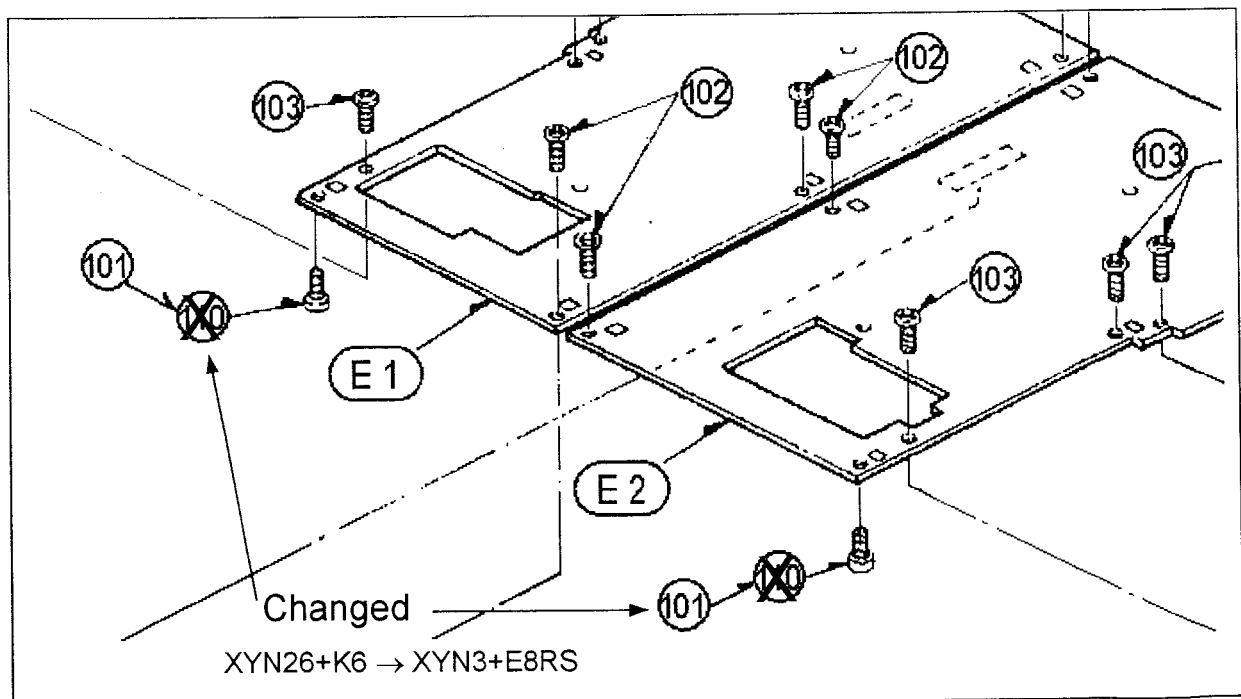
Please use this supplement together with the Service Manual as follows :

Model No.	Bulletin No.	Order No.	Effective from
AJ-LT75E	7	VSD9708M602A	G7TNA0001

Chassis Frame Assembly (1)

To reinforce the Main P.C. Board fixing, a screw (XYN3+C8) is added to the Main P.C. Board Angle (B) as shown below. At the same time, the following screws are changed from XYN26+K6 to XYN3+E8RS.

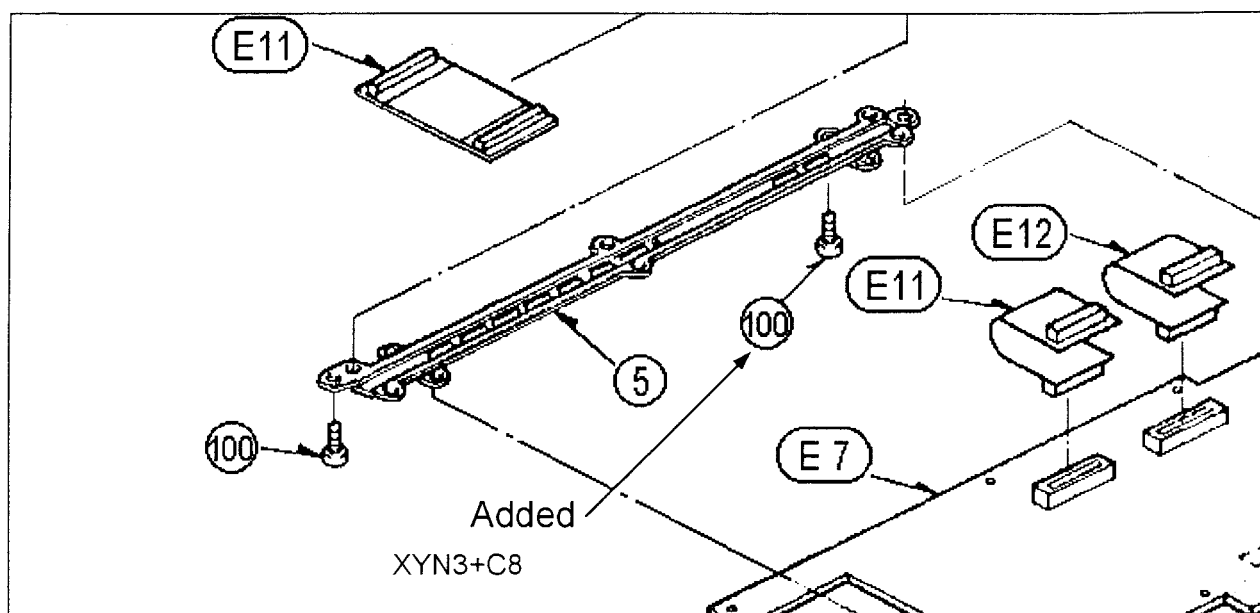
Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
100	---	XYN3+C8	SCREW	0→1	
101	---	XYN3+E8RS	SCREW	0→2	
110	XYN26+K6	---	SCREW	2→0	



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Technical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject : Improvement of Audio Distortion Sound

Please use this supplement together with the Service Manual as follows :

Model No.	Bulletin No.	Order No.	Effective from
AJ-LT75E	8	VSD9708M602A	G7TNA0001

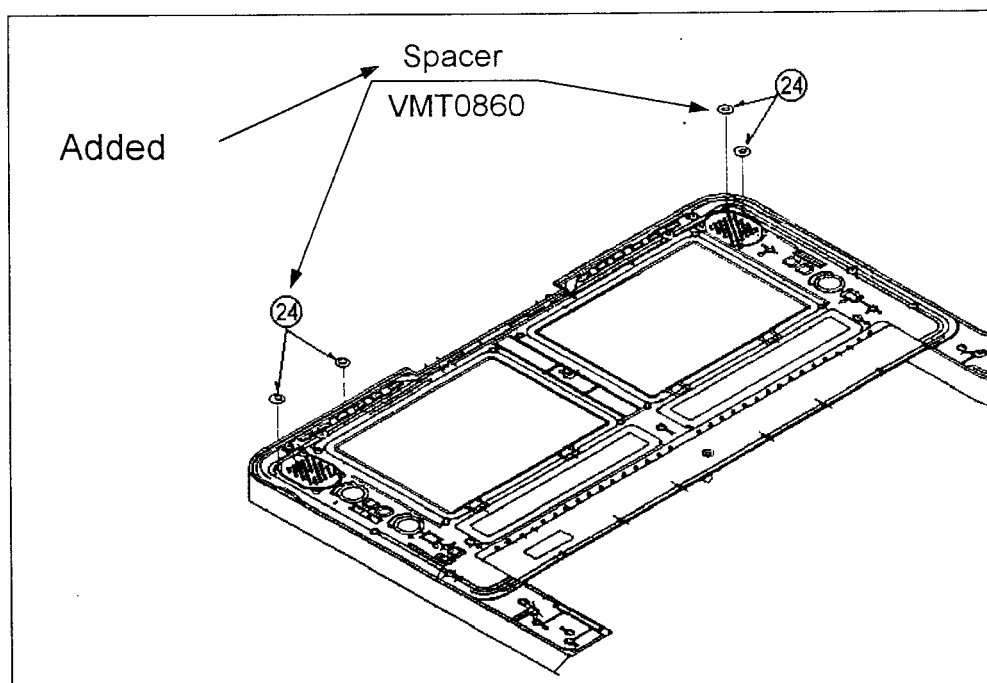
Chassis Frame Assembly (2)

Symptom : Audio distortion sound may be heard from the speaker.

Cause : There is a space between the Speaker Unit and LCD Panel Unit. When the deck is moved, the Speaker Unit is vibrated and it results in audio distortion sound.

Remedy : To prevent it, the spacers are added between the speaker Unit and LCD Panel Unit as shown below.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
24	---	VMT0860	SPACER	0→4	



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17725
 8115
 13322
 25162

Technical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject : Change of E-ring

Please use this supplement together with the Service Manual as follows :

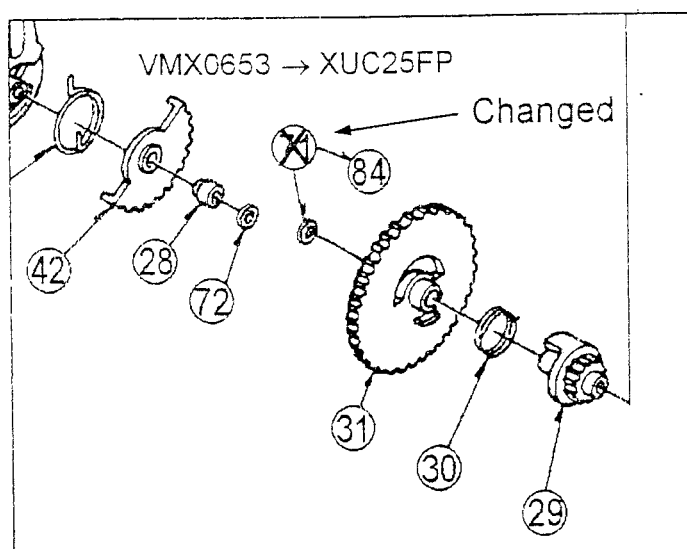
Model No.	Bulletin No.	Order No.	Effective from
AJ-D750E/EN	88	VSD9606M502A	D7TRE0001
AJ-D650E	63	VSD9612MJ01A	D7TRA0001
AJ-D640E	63	VSD9612MJ01A	D7TRA0001
AJ-LT75E ✓	9	VSD9707M602A	G7TNA0001
AJ-D230E	9	VSD9708M605	I7TDA0001

Cassette Compartment Assembly

Reason for Change

- ☐ The following part(s) has (have) been changed for serviceability improvement.
- ☒ The following part(s) has (have) been changed for productivity improvement.
- ☒ The following part(s) has (have) been changed for standardization.
- ☐ The following part(s) has (have) been changed for the safety regulation.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
71	VMX0653	—	CUT WASHER	1→0	
84	—	XUC25FP	E-RING	0→1	



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17726

8115

M0932

M162

Order No. VSD9710SA689

Technical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject : Improvement of Cassette Compartment Unit

Please use this supplement together with the Service Manual as follows :

Model No.	Bulletin No.	Order No.	Effective from
AJ-D750E/EN	89	VSD9606M502A	D7TRB0001
AJ-D650E	64	VSD9612MJ01A	D7TRA0001
AJ-D640E	64	VSD9612MJ01A	D7TRA0001
AJ-LT75E ✓	10	VSD9707M602A	G7TNA0001
AJ-D230E	10	VSD9708M605	I7TDA0001

Cassette Compartment Assembly

Symptom : L cassette may not fall down.

Cause : When the L cassette is inserted, the label attached side of the cassette tape falls down due to the tolerance of the Cassette Sub Rail slot and then it is not inserted correctly.

Remedy : To improve the cassette insertion, the Sub Rail (R) and (L) are changed as shown in figures 1 and 2.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
1	VXA5942	VXA5979	CASSETTE COMPARTMENT U	1	
15	VML2A51	VML3282	SUB RAIL (R)	1	
26	VML2A48	VML3281	SUB RAIL (L)	1	

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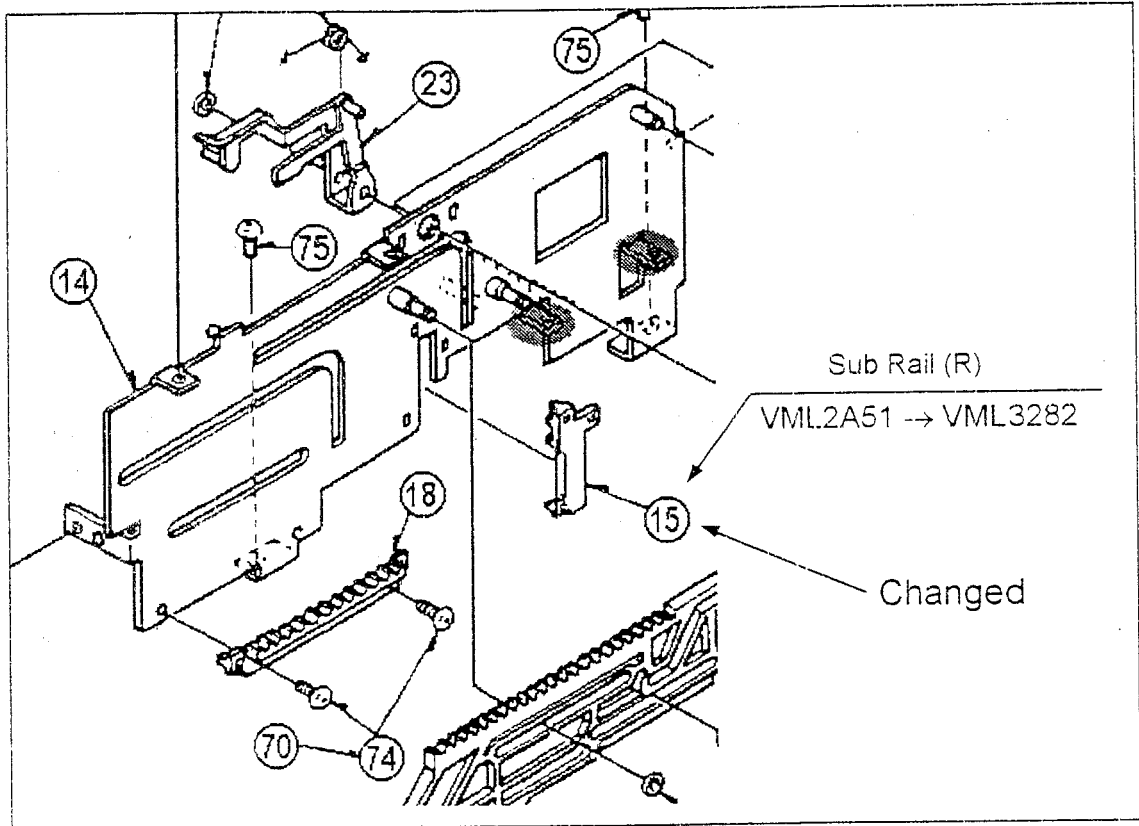


Fig. 1

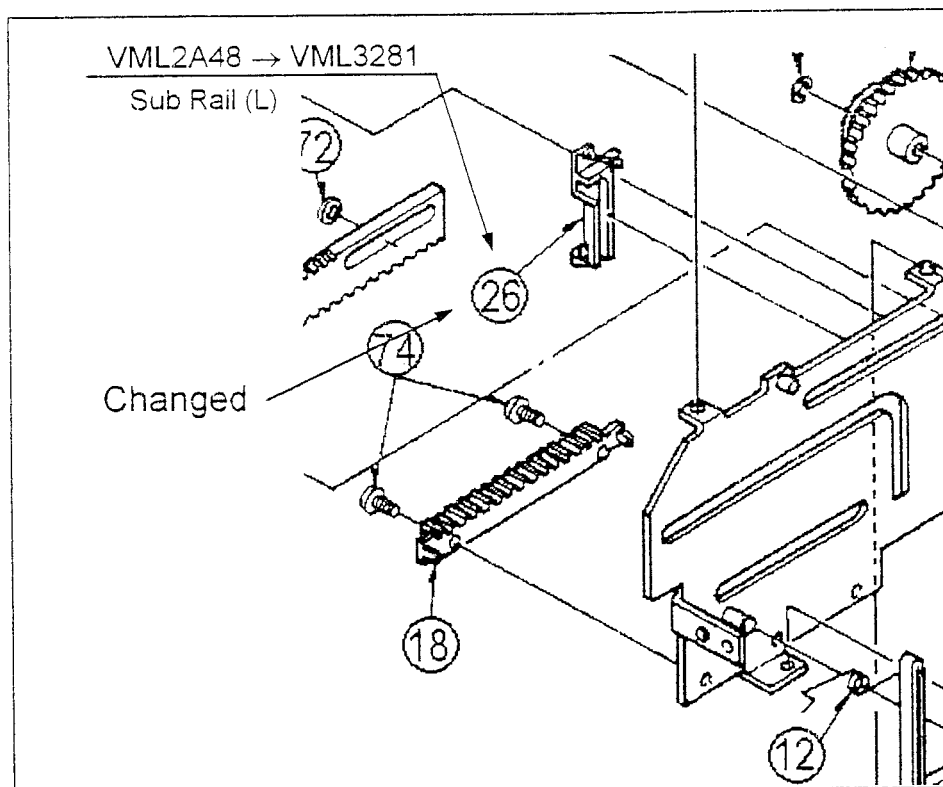


Fig. 2

V19926 # 2516083

V19926 # 1017024

V19926 # 1030051

V19922 ✓

1017024/1017024

Order No. VSD9710SA698

Technical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject : Mechanical Chassis Unit Supply Information

Please use this supplement together with the Service Manual as follows :

Model No.	Bulletin No.	Order No.	Effective from
AJ-D750E/EN	98	VSD9606M502A	---
AJ-D650E	71	VSD9612MJ01A	---
AJ-D640E	71	VSD9612MJ01A	---
AJ-LT75E ✓	16	VSD9707M602A	---
AJ-D230E	13	VSD9708M605	---

Mechanical Chassis Assembly (2)

To improve the serviceability and manufacturing productivity, the Mechanical Chassis unit is supplied without the Cassette Compartment Unit as follows.

AJ-D750

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
	VXY1168	VXY1254Z1	MECHANICAL CHASSIS U	1	

AJ-D650/D640

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
	VXY1254	VXY1254Z1	MECHANICAL CHASSIS U	1	

AJ-LT75/D230

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
	VXY1283	VXY1283Z1	MECHANICAL CHASSIS U	1	

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Technical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject : Change of Screws for Cassette Compartment

Please use this supplement together with the Service Manual as follows :

Model No.	Bulletin No.	Order No.	Effective from
AJ-D750E/EN <i>VSD 26</i>	100	VSD9606M502A	G7TRB0001
AJ-D650E <i>VSD 15</i>	73	VSD9612MJ01A	G7TRA0001
AJ-D640E	73	VSD9612MJ01A	G7TRA0001
AJ-LT75E <i>VSD 15</i>	17	VSD9707M602A	G7TNA0001
AJ-D230E <i>VSD 15</i>	14	VSD9708M605	I7TDA0001

Cassette Compartment Assembly

To improve the manufacturing productivity, the following screws are changed.

- 1). Screws for Wiper Racks are changed from VHD0678 to LMHD16061 as shown in figures 1 and 3.
- 2). Screws for Holder Flexible Unit are changed from VHD0678 to LMHD16061 as shown in figure 2.
- 3). Screws for Holder Flexible Unit are changed from XQN16+A25 to LMHD16061 as shown in figure 2.
- 4). Screws for Side Flexible are changed from XQN16+A2 to LMHD16061 as shown in figure 4.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
70	VHD0678	LMHD16061	FHA SCREW	6→10	
74	XQN16+A2	---	SCREW	2→0	
76	XQN16+A25	---	SCREW	2→0	

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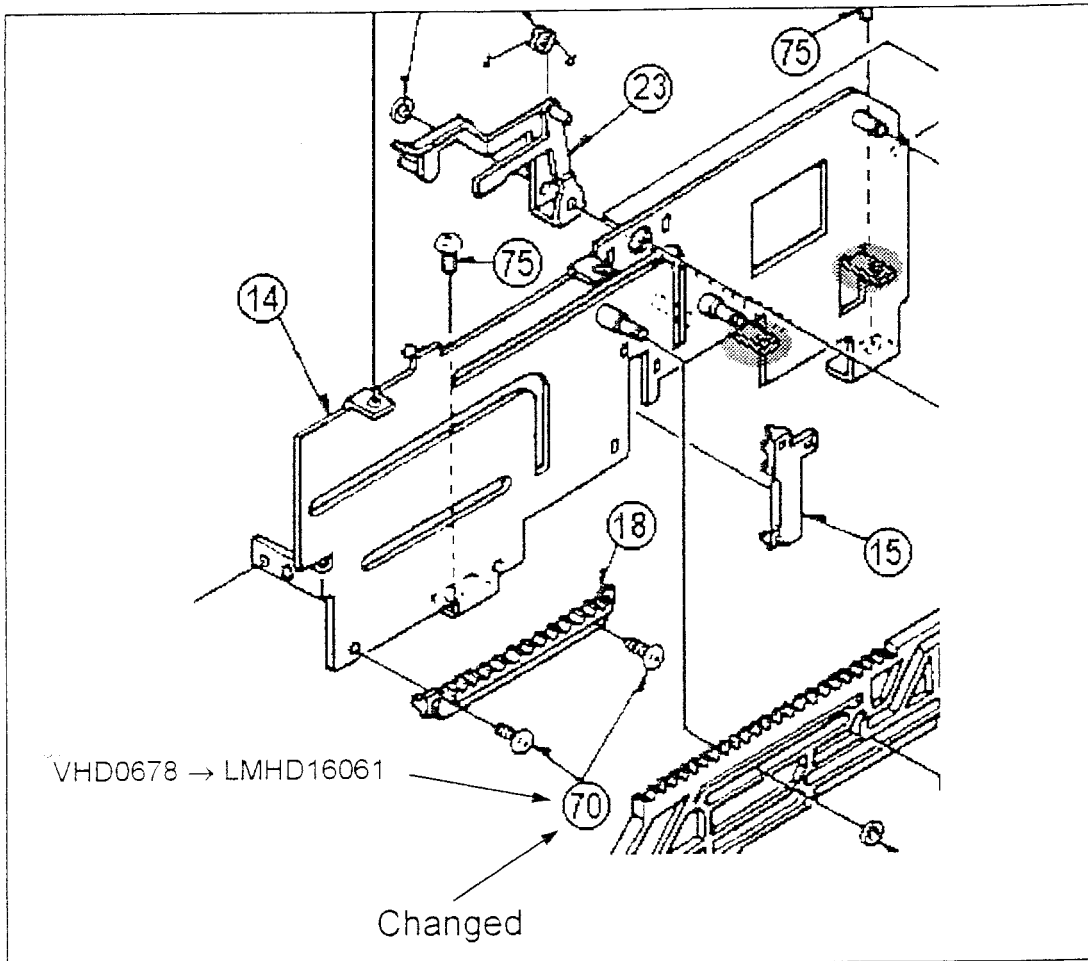


Fig. 3

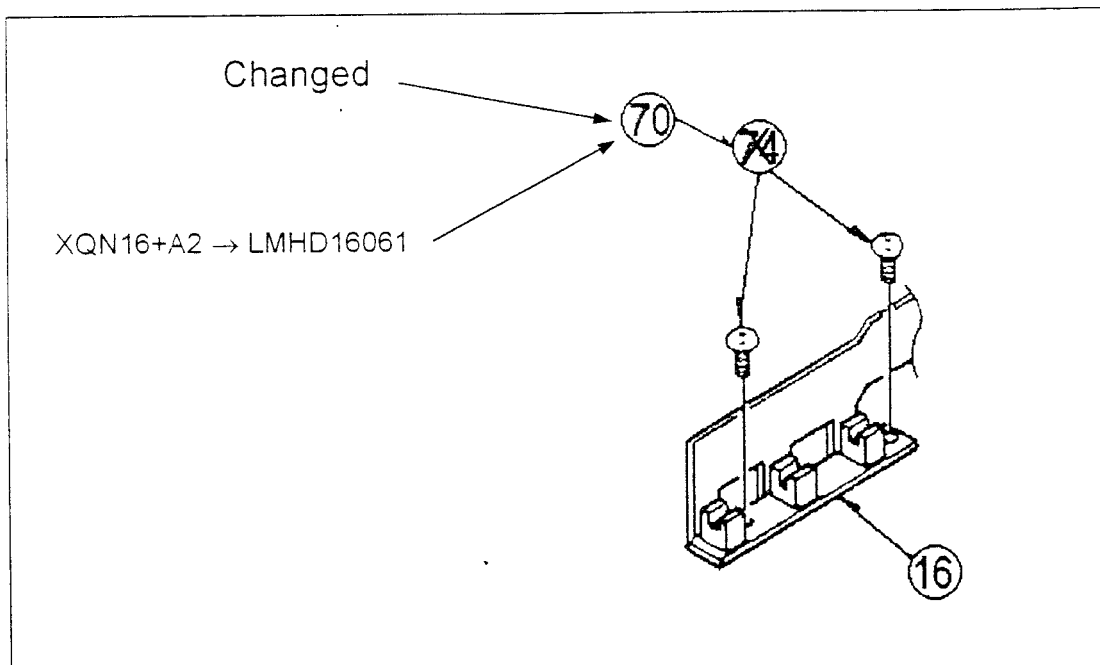


Fig. 4

19922V
3923

Order No. VSD9710SD614

Technical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject : Software Version Up Grade

Please use this supplement together with the Service Manual as follows :

Model No.	Bulletin No.	Order No.	Effective from
AJ-LT75E	18	VSD9707M602A/B	G7TNA0001

Board : AV SYSCON (VEP06B53B)

The following software has been up-dated to improve the functioning of the VTR.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
IC60102	VSI2332G	VSI2332J	AV SYSCON PROM Ver. 1.21-00	1	
IC60802	VSI2332G	VSI2332J	AV SYSCON PROM Ver. 1.21-00	1	

< TEST MENU >

* AV SYSCON	IC60102	: 1.21-00	REEL	IC2101	: 1.08-00
* KEYBOARD	IC60802	: 1.21-00	CYLINDER	IC2201	: 1.05-00
	IC65001	: 1.04-00			

< Improvement of Performance >

Symptom : 1). Servo may not lock during 2F Playback mode.

2). Picture may be frozen and audio may be muted in spite of lightening the Servo lamp during 4F Playback mode.

Cause : Due to the communication error between AV SYSCON and Servo.

Remedy : To prevent it, READY command (0X02) and CASSETTE command (0X05) are communicated only when the mode is fixed after 250msec from PINCH OFF mode.

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Technical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject : Improvement of DV Playback Picture

Please use this supplement together with the Service Manual as follows :

Model No.	Bulletin No.	Order No.	Effective from
AJ-LT75E	19	VSD9707M602A/B	H7TNA0001

Board : RF AMP (VEP05339B)

Symptom : Picture may be disturbed during DV Playback mode.

Cause : RF envelope detect circuit output is out of specification due to the tolerance of resistor. So, RF envelope detect circuit output becomes low during DV Playback mode.

Remedy : To improve the picture during DV Playback mode, the following modification is performed.
Resistors R5777, R5778, R5781, R5782, R5783 (on the foil side) and R5784 (on the component side) are changed from ERJ3GEYJ*** type to ERJ3RBD*** type as follows.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
R5777	ERJ3GEYJ822	ERJ3RBD822	M. RESISTOR CH 1/16W 8.2K	1	
R5778	ERJ3GEYJ821	ERJ3RBD821	M. RESISTOR CH 1/16W 820	1	
R5781	ERJ3GEYJ332	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R5782	ERJ3GEYJ392	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R5783	ERJ3GEYJ332	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R5784	ERJ3GEYJ153	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	

Ref. No.	Schematic Diagram		P.C. Board	
	Page	Area No.	Page	Area No.
R5777	2-134	B-5 (4/6)	3-3	B-1 (F)
R5778	2-134	B-6 (4/6)	3-3	B-1 (F)
R5781	2-134	B-7 (4/6)	3-3	B-1 (F)
R5782	2-134	B-7 (4/6)	3-3	B-1 (F)
R5783	2-134	A-7 (4/6)	3-3	A-1 (F)
R5784	2-134	A-8 (4/6)	3-3	A-9 (C)

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Technical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject : Change of Blinder Panel

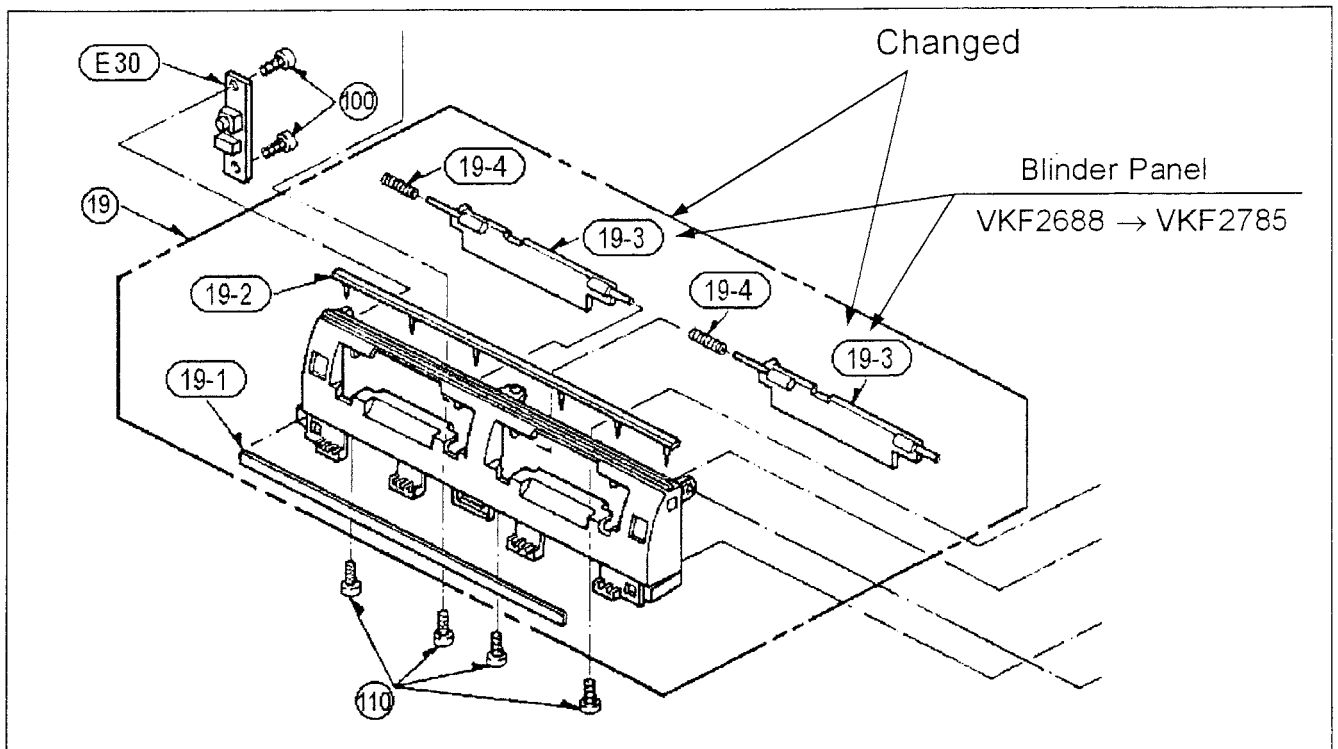
Please use this supplement together with the Service Manual as follows :

Model No.	Bulletin No.	Order No.	Effective from
AJ-LT75E	20	VSD9707M602A	H7TNA0001

Chassis Frame Assembly (2)

To prevent the S cassette from inserting without the adaptor incorrectly, the caution letter is printed to the Blinder Panel. According to this change, the Blinder Panel is changed from VKF2688 to VKF2785.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
19-3	VKF2688	VKF2785	BLINDER PANEL	2	



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Technical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject : Change of ROM Type

Please use this supplement together with the Service Manual as follows :

Model No.	Bulletin No.	Order No.	Effective from
AJ-LT75E	24	VSD9707M602A/B	I7TNA0001

Board : Display Control (VEP06B55B)

To improve manufacturing productivity, IC68001 is changed from one time memory type PROM to masking type PROM.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
IC68001	UPD75236J034	UPD75236J037	IC	1	

Ref. No.	Schematic Diagram		P.C. Board	
	Page	Area No.	Page	Area No.
IC68001	2-177	E~F-9~10 (1/1)	3-9	A-15 (C)

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Technical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject : Change of ROM Type

Please use this supplement together with the Service Manual as follows :

Model No.	Bulletin No.	Order No.	Effective from
AJ-LT75E	25	VSD9707M602A/B	I7TNA0001

Board : Servo (VEP02545B)

To improve manufacturing productivity, IC2101 is changed from one time memory type PROM to masking type PROM.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
IC2101	VSI2484A	M37774M5L420	REEL PROM Ver. 1.08-00	1	

< TEST MENU >

AV SYSCON	IC60102 : 1.21-00	* REEL	IC2101 : 1.08-00
	IC60802 : 1.21-00	CYLINDER	IC2201 : 1.05-00
KEYBOARD	IC65001 : 1.04-00		

* Note *

AV SYSCON PROM must be up-graded more than version 1.19 at the same time.

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Order No. VSD9710SD621

Technical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject : Countermeasure for Tape Damage during Loading Mode

Please use this supplement together with the Service Manual as follows :

Model No.	Bulletin No.	Order No.	Effective from
AJ-LT75E	26	VSD9707M602A/B	I7TNA0001

Board : Servo (VEP02545B)

Symptom : Tape damage may occur when the mode is changed to Stand-by OFF mode at the rewind start position of the L cassette tape.

Cause : As the motor voltage standard becomes high due to the lack of hFE of transistor, the loading speed becomes fast and the back tension of S Reel becomes low relatively. It results in tape damage.

Remedy : To prevent the tape damage, the following modification is performed.

- 1). Diode D64201 is changed from MA3082 to MA3100 on the foil side.
- 2). Transistors QR64204 and QR64205 are changed from UN5213 to UN5211 on the foil side.
- 3). Resistor R64208 is changed from 1/8W, 220Ω to 1/8W, 2.2KΩ on the foil side.
- 4). Resistor R64219 (1/16W, 0Ω) is added to the pattern on the on the component side.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
D64201	MA3082	MA3100	DIODE	1	
QR64204	UN5213	UN5211	TRANSISTOR-RESISTOR	1	
QR64205	UN5213	UN5211	TRANSISTOR-RESISTOR	1	
R64208	ERJ8GEYJ221	ERJ8GEYJ222	M. RESISTOR CH 1/8W 2.2K	1	
R64219	---	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	0→1	

Ref. No.	Schematic Diagram		P.C. Board	
	Page	Area No.	Page	Area No.
D64201	2-149	E-6 (13/13)	3-3	C-2 (F)
QR64204	2-149	D-2 (13/13)	3-3	D-2 (F)
QR64205	2-149	D-2 (13/13)	3-3	C-1 (F)
R64208	2-149	E-7 (13/13)	3-3	B-2 (F)
R64219	2-149	E-6 (13/13)	3-3	C-1 (C)

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Technical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject : Addition of Mode SW Cover

Please use this supplement together with the Service Manual as follows :

Model No.	Bulletin No.	Order No.	Effective from
AJ-D750E/EN	110	VSD9606M502A	I7TRB0001
AJ-D650E	81	VSD9612MJ01A	I7TRA0001
AJ-D640E	81	VSD9612MJ01A	I7TRA0001
AJ-LT75E ✓	27	VSD9707M602A	I7TNA0001
AJ-D230E ✓	21	VSD9708M605	I7TDA0001
AJ-D700E/EN ✓	65	VSD9606M501A	I7TKA0001
AJ-D800E/EN ✓	14	VSD9708M606A	I7TKA0001
AJ-D200HE	17	VSD9708M604	I7TKA0001

Mechanical Chassis Assembly (2)

Symptom : Mode SW may be malfunctioned.

Cause : Sharpened powder of the Solenoid Base may fall on the Mode SW. It results in Mode SW malfunction.

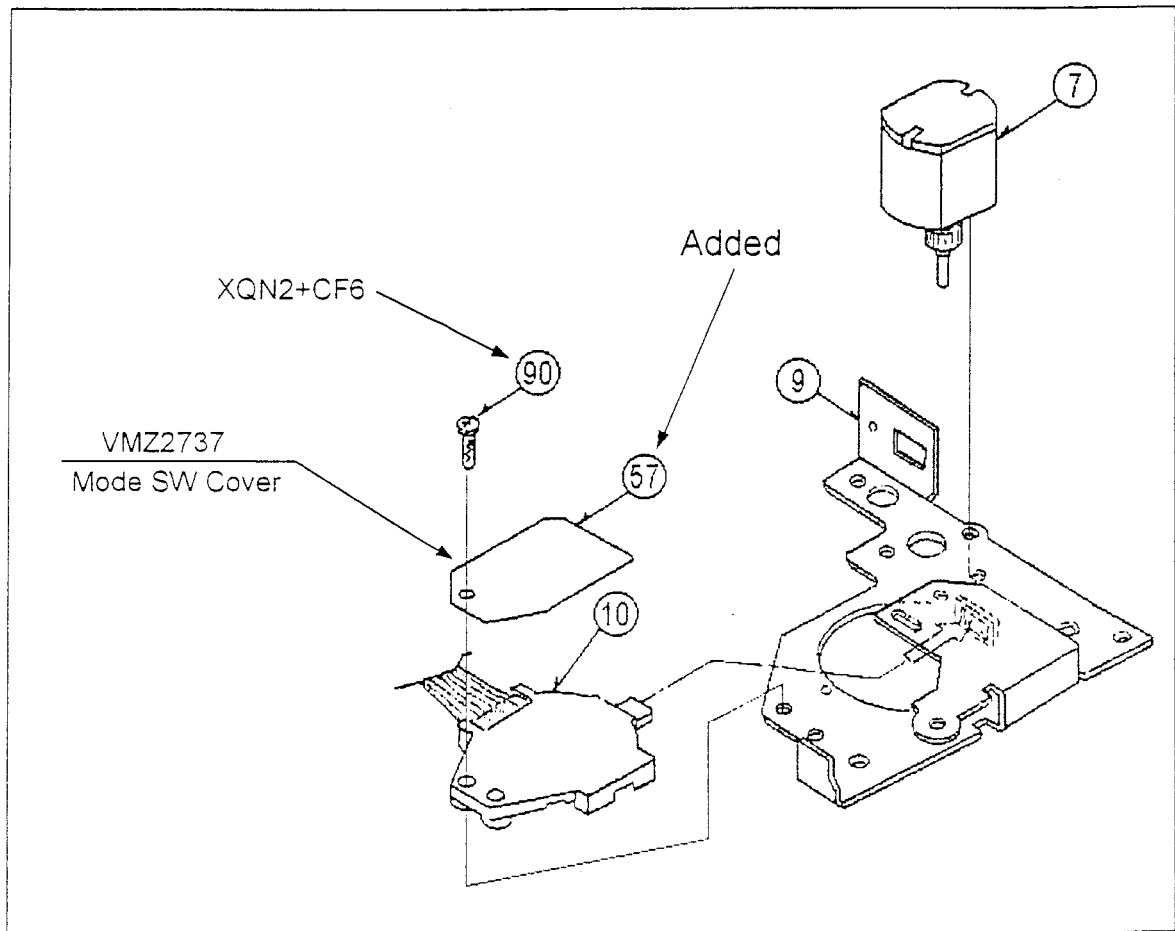
Remedy : To prevent it, the Mode SW Cover (VMZ2737) is added to the Mode SW unit as shown below.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
57	—	VMZ2737	MODE SW COVER	0→1	Not listed in parts list
90	—	XQN2+CF6	SCREW	0→1	

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Order No. VSD9711SD622

Technical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject : Software Version Up Grades

Please use this supplement together with the Service Manual as follows :

Model No.	Bulletin No.	Order No.	Effective from
AJ-LT75E	29	VSD9707M602A/B	I7TNB0069

Board : AV SYSCON (VEP06B53C)
Key Board (VEP06B54C)
Servo (VEP02545E)
Digital 1 (VEP03E38B)
Digital 2 (VEP03E39B)

The following software has been up-dated to improve the functioning of the VTR.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
IC60102	VSI2332J	VSI2332L	AV SYSCON PROM Ver. 1.23-00	1	
IC60802	VSI2332J	VSI2332L	AV SYSCON PROM Ver. 1.23-00	1	
IC65001	VSI2494-4	VSI2494-5	KEYBOARD PROM Ver. 1.05-00	1	
IC2201	VSI2485	VSI2485A	CYLINDER PROM Ver. 1.06-00	1	

< TEST MENU >

* AV SYSCON	IC60102 : 1.23-00	REEL	IC2101 : 1.08-00
*	IC60802 : 1.23-00	* CYLINDER	IC2201 : 1.06-00
* KEYBOARD	IC65001 : 1.05-00		

* Note *

User Setting Menu may be reset at the Key Board PROM version up-grade. User Setting Menu must be written down before replacement of the Key Board PROM. Reset the SETUP Menu before replacement of Key Board PROM, and set "001 : LCD SUPER" of the Basic Menu to ON. After replacement of PROM, confirm that the User Setting Menu is reset or not. If it is reset, set again which was written down before replacement. And just make sure that the Service Menu and Hour Meter Data show the same data as before.

< Additional Function >

< Key Board >

1. STILL Picture Editing function is introduced as follows.

1). Register the IN point and OUT point of the Player (VTR1) as the same point.

- These points can be registered as the same point by simultaneously pressing the IN button, OUT button and SHIFT/ENTRY button of the Player (VTR1).

2). Set and register both the IN point and OUT point of the Recorder (VTR2).

- Open-ended execution is possible even when the IN point alone is registered.

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3). Press the AUTO EDIT button to execute editing.

The still picture of the Player (VTR1) at the point registered in step (1) is now edited.

< Note >

The Still Picture Editing can be operated only when the OPERATION MODE switch is set to "INT".

2. TC JUMP function is introduced on the No. 511 on the TIME CODE SETUP Menu as follows.

Editing is not normally possible in areas where the time code is discontinuous during the preroll period. However, using the TC JUMP function, editing is performed using CTL as the reference in the preroll period and using TC as the reference after the IN point has been passed (during Edit Recording). TC is displayed so that the unit can be operated as though TC Editing were being performed all the time.

1). Set the Menu No. 511 (TC JUMP) to VTR1, VTR2 or ALL.

(Select the VTR for which the TC JUMP function is to be used.)

2). Carry out the regular Automatic Editing Operations.

In the Preview, Automatic Editing or Review mode, the tape is first cued up to the IN point, it is prerolled using the CTL value of the IN point as a reference, and it begins its approach. After it has passed the IN point and the Edit Recording mode is established, editing continues using the TC as the reference.

Item		Setting		Description	V T R 1	V T R 2
No.	Superimposed Display	No.	Superimposed Display			
511	TC JUMP	0000	OFF	This sets whether to perform TC JUMP. 0 : No TC JUMP. 1 : TC JUMP is performed for VTR1 only. 2 : TC JUMP is performed for VTR2 only. 3 : TC JUMP is performed for both VTR1 and VTR2. < Note > When TC JUMP is performed, the tape is first cued up to the IN point, it is prerolled using the CTL value of the IN point as a reference, it begins its approach, and after it has passed the IN point, editing proceeds using the TC as the reference.		
		0001	VTR1			
		0002	VTR2			
		0003	ALL			○

< Key Board / AV SYSCON >

1. Audio Recording Swap function (VTR2 only) is introduced on the AUDIO SETUP Menu as follows.

This function enables CH1 input, CH2 input or CH1/CH2 mix to be selected as the audio signals to be recorded on CH1 and CH2 of VTR2.

It makes it possible to record signals from an external microphone, which has been connected to CH2, on CH1. It is also useful for internal editing from VTR1 to VTR2.

1). The signals to be recorded on CH1 can be selected by changing the setting of SETUP Menu No. 713 (CH1 REC SEL).

- The level of the input channel signals can be adjusted using the recording level control.

When CH2 was selected on SETUP Menu No. 713, use the CH2 recording level control for the adjustment.

- The level of the channel signals to be recorded can be monitored on the level meter.

Use the CH1 meter to check the signals to be recorded even when CH2 was selected on SETUP Menu No. 713.

(However, use the CH2 meter to check the input signals with EXT CHECK).

- When inserting the audio signals, select the channel on which the signals are to be recorded.

Select A1 (CH1) for insert recording even when CH2 has been selected on SETUP Menu No. 713.

Setup Menu No.713	Audio signals to be recorded on CH1	Recording Level Control	Level Meter	Insert Bit
CH1	CH1 input audio signals	CH1	CH1	A1
CH2	CH2 input audio signals	CH2		
MIX	CH1 and CH2 mixed audio signals	CH1/CH2 (mixing ratio variable)		

2). The signals to be recorded on CH2 can be selected by changing the setting of SETUP Menu No. 714 (CH2 REC SEL).

- The level of the input channel signals can be adjusted using the recording level control. When CH1 was selected on SETUP Menu No. 714, use the CH1 recording level control for the adjustment.
- The level of the channel signals to be recorded can be monitored on the level meter. Use the CH2 meter to check the signals to be recorded even when CH1 was selected on SETUP Menu No. 714.
(However, use the CH1 meter to check the input signals with EXT CHECK).
- When inserting the audio signals, select the channel on which the signals are to be recorded. Select A2 (CH2) for insert recording even when CH1 has been selected on SETUP Menu No. 714.

Setup Menu No.714	Audio signals to be recorded on CH2	Recording Level Control	Level Meter	Insert Bit
CH1	CH1 input audio signals	CH1	CH2	A2
CH2	CH2 input audio signals	CH2		
MIX	CH1 and CH2 mixed audio signals	CH1/CH2 (mixing ratio variable)		

No.713 and 714 of AUDIO SETUP Menu are as follows.

Item		Setting		Description	V T R 1	V T R 2
No.	Superimposed Display	No.	Superimposed Display			
713	CH1 REC SEL	0000 0001 0002	CH1 CH2 MIX	This selects the audio input signals to be recorded on CH1. (For VTR2 only) 0 : The audio signals supplied to CH1 are recorded. 1 : The audio signals supplied to CH2 are recorded. 2 : The audio signals supplied to CH1 and CH2 are mixed and recorded.		○
714	CH2 REC SEL	0000 0001 0002	CH1 CH2 MIX	This selects the audio input signals to be recorded on CH2. (For VTR2 only) 0 : The audio signals supplied to CH1 are recorded. 1 : The audio signals supplied to CH2 are recorded. 2 : The audio signals supplied to CH1 and CH2 are mixed and recorded.		○

2. Editing Suspension function is added on the 306:SV-UNLK EDIT of EDIT SETUP Menu as follows.
When the servo is not locked during INT/EXT INSERT Edit mode, the editing suspension function is added as follows.

Item		Setting		Description	V T R 1	V T R 2
No.	Superimposed Display	No.	Superimposed Display			
306	SV-UNLK EDIT	0000 0001 0002	EDIT ABORT1 ABORT2	This selects whether to suspend editing when the servo lock does not engage. 0 : Editing is not suspended. 1 : Editing is suspended if the servo fails to engage during the preroll period. 2 : Editing is suspended if the servo fails to engage not only during the preroll period but also after the edit recording mode was established. (Used for automatic insert editing only)		○

< Note >

The AV SYSCON and Key Board PROM must be up-graded at the same time.

< Improvement of Performance >

< AV SYSCON >

1. When the RECINH SW is turned ON during REC mode, the RECINH SW is lightened instead of REC mode. It is improved.
2. When the brand-new tape is inserted, the unit goes to STOP mode instead of pressing the REC button. It is improved.
3. When the Slow Playback (less than X1 mode) is performed for a long time (4 ~ 5 hours) continuously, the Reel Microcomputer may malfunction. To prevent it, when the Slow Playback is continued more than one hour, mode is changed to STOP mode.
4. Improvement of JOG Dial response
5. Noisy sound may be heard at the rising edge of the Play mode when the mode is changed from REW/Search (-) to PLAY mode. It is improved.
6. When the DV/DVCAM tape is played back during SEARCH X1 mode, audio is not output from the CH3/CH4 and then channel is changed to CH1/CH2. It is improved.
7. "L" (head clogging) is displayed during DV Playback mode. It causes the head clogging mis-detection. It is improved.
8. Anton-Bauer Battery can be connected. According to this, the under-cut voltage is changed as shown below.

[Input DC Voltage Error Detection]

- Under-cut voltage and warning level indication is changed as shown below.

INPUT DC voltage, when the power ON	Warning	Battery Under-cut Voltage
more than 13.0V → 13.7V	under 12.5V → 12.0V	12.0V → 10.6V
less than 13.0V → 13.7V	under 11.0V → 10.8V	10.6V

Changed

< Servo / AV SYSCON >

1. When the mode is changed as shown below, audio is muted for a moment and then output. To improve the quick start after mode change, the output of servo lock information is changed or CTL duty detection is improved.

STILL → PLAY,

REV → STILL → PLAY

SLOW → PLAY

< Servo>

1. SERVO LOCK lamp is lightened during X1 JOG/SHTL mode. To correspond the Studio VTR, it is not lightened.
2. Servo may not lock according to the tracking data during CTL control mode. It is improved.

< Note >

When the Cylinder PROM is up-graded to version 1.06, the hardware modification for the Digital 1 and Digital 2 Boards must be required.

< Digital 1 Board >

1. Connect a jumper wire between the CTP (A) (near P35701) and CTP (B) (near IC1109) on the foil side as shown in figure 1.

< Digital 2 Board >

1. Connect a jumper wire between the CTP (C) (near P33001) and CTP (D) (near IC1404) on the foil side as shown in figure 2.

According to this up-grade, the following P.C. Board suffixes are changed as follows.

	Original	New
AV SYSCON	VEP06B53B	VEP06B53C
Key Board	VEP06B54B	VEP06B54C
Servo	VEP02545B	VEP02545E
Digital 1	VEP03E38A	VEP03E38B
Digital 2	VEP03E39A	VEP03E39B

When the software is up-graded, please refer to the following interchangeability chart.

Servo	AV SYSCON	Key Board	Digital 1, 2	Function
New	Original	Original	Not modified	○ *3
Original	New	New	Not modified	○ *4
New	New	New	Not modified	X *3
Original	Original	Original	Modified	○ *3
New	Original	Original	Modified	○ *5
Original	New	New	Modified	○ *4
New	New	New	Modified	OK

- * Note 1 * AV SYSCON and Key Board PROM must be up-graded at the same time. Otherwise, malfunction may be occurred.
- * Note 2 * Servo PROM up-grade and hardware modification for Digital 1 and Digital 2 Board must be performed at the same time. Otherwise, malfunction may be occurred. But only introduction of the hardware modification is no problem.
- * Note 3 * All new additional function is not executed.
- * Note 4 * New additional function for Servo PROM is not executed.
- * Note 5 * New additional function for AV SYSCON and Key Board PROM is not executed.

Digital 1 P.C. Board (VEP03E38B)

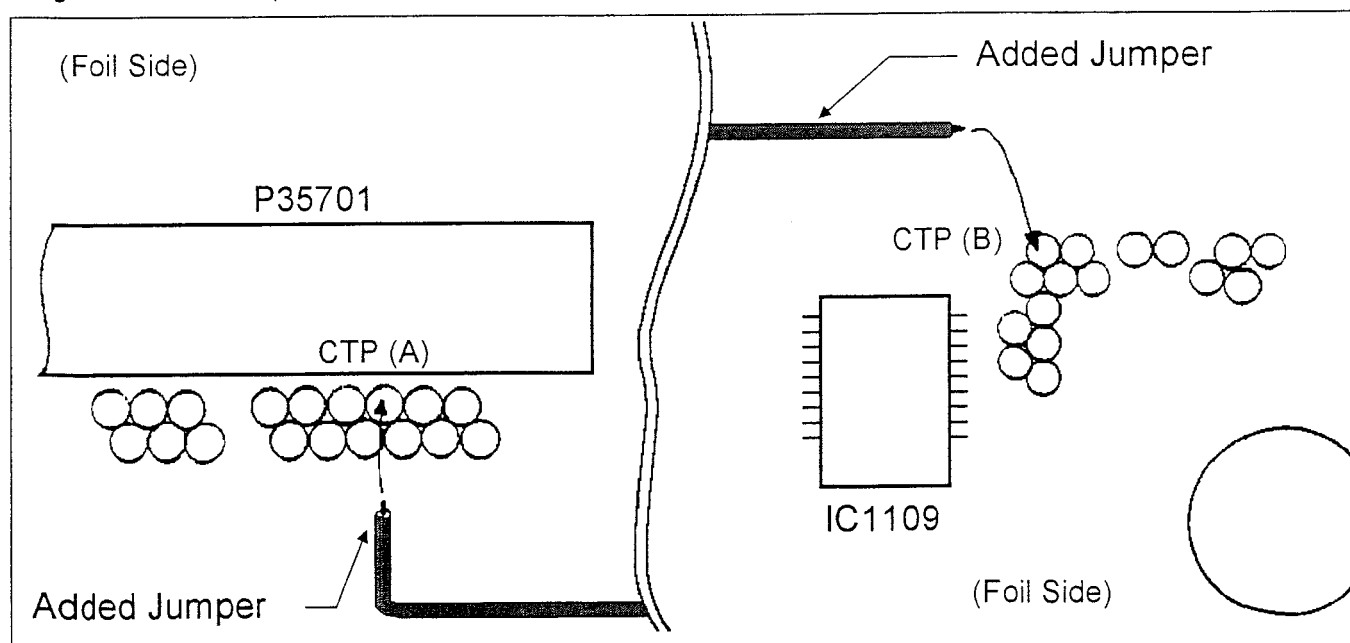


Fig. 1 Page 3-1

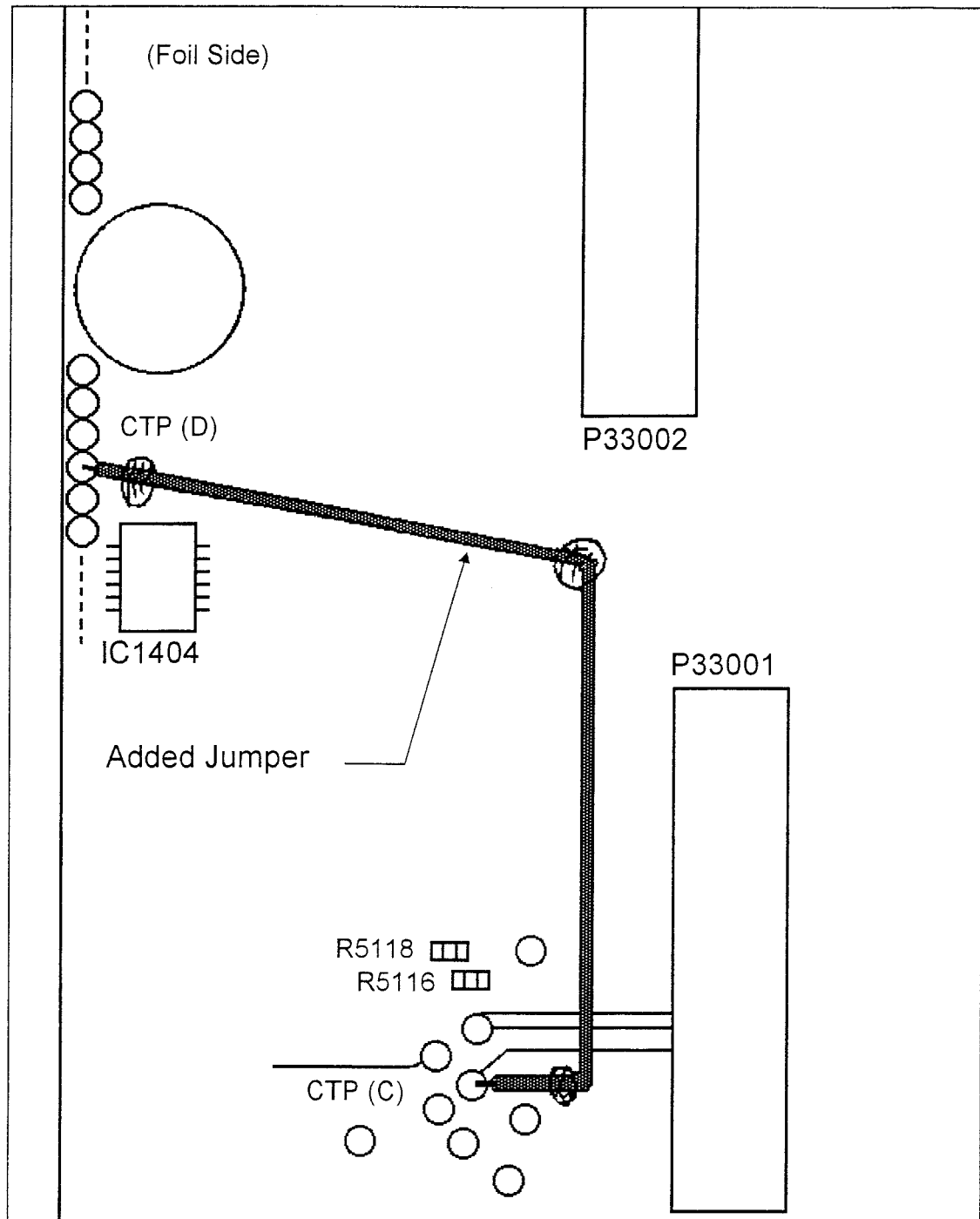


Fig. 2 Page 3-2 (H~J-1)

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Order No. VSD9711SD623

Technical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject : Software Version Up Grades

Please use this supplement together with the Service Manual as follows :

Model No.	Bulletin No.	Order No.	Effective from
AJ-LT75E	30	VSD9707M602A/B	J7TNB0001

Board : AV SYSCON (VEP06B53C)

The following software has been up-dated to improve the functioning of the VTR.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
IC60102	VSI2332M	VSI2332N	AV SYSCON PROM Ver. 1.25-00	1	
IC60802	VSI2332M	VSI2332N	AV SYSCON PROM Ver. 1.25-00	1	

< TEST MENU >

* AV SYSCON	IC60102	: 1.25-00	REEL	IC2101	: 1.08-00
*	IC60802	: 1.25-00	CYLINDER	IC2201	: 1.06-00
KEYBOARD	IC65001	: 1.05-00			

< Note >

Key Board PROM must be up-graded more than version 1.05-00 at the same time.

< Improvement of Performance >

Symptom : Tape damage may occur during Loading/Unloading mode.

- Cause : 1). When the unit goes to Loading mode before changing the mode from the Stand-by OFF mode to the Loading Completion mode (stop position), the tape may be rarely supplied from the S Reel at the rising edge of the Loading mode. Tape reverse winding, tape hunting or tape looseness may occur. It results in tape damage.
- 2). When the tape is rarely wound to the T Reel and then supplied from the S Reel during Unloading mode, tape reverse winding or tape looseness may occur. It causes the Reel microcomputer malfunction. It results in tape damage.

Remedy : AV SYSCON software is up-graded.

* Note *

Unloading mode starts after 2 seconds when Reel microcomputer is received the command.

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Technical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject : Change of ROM Type

Please use this supplement together with the Service Manual as follows :

Model No.	Bulletin No.	Order No.	Effective from
AJ-LT75E	33	VSD9707M602A/B	L7TNB0001

Board : Digital 1 (VEP03E38B)
Digital 2 (VEP03E39B)

To improve manufacturing productivity, SBC microcomputer IC34201 (Digital 1) and IC31501 and IC31601 (Digital 2) are changed from one time memory type PROM to masking type PROM.

Digital 1 Board

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
IC34201	VSI2483	M37709M4L164	IC	1	

Ref. No.	Schematic Diagram		P.C. Board	
	Page	Area No.	Page	Area No.
IC34201	2-15	C~D-5~6 (15/35)	3-1	D-5 (C)

Digital 2 Board

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
IC31501	VSI2483	M37709M4L164	IC	1	
IC31601	VSI2483	M37709M4L164	IC	1	

Ref. No.	Schematic Diagram		P.C. Board	
	Page	Area No.	Page	Area No.
IC31501	2-55	C~D-5~6 (20/41)	3-2	C-5 (C)
IC31601	2-56	C~D-5~6 (21/41)	3-2	E-6 (C)

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Technical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject : Change of ROM Type

Please use this supplement together with the Service Manual as follows :

Model No.	Bulletin No.	Order No.	Effective from
AJ-LT75E	34	VSD9707M602A/B	B8TNB0001

Board : Servo (VEP02545E)

To improve manufacturing productivity, IC2201 is changed from one time memory type PROM to masking type PROM.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
IC2201	VSI2485A	M37774M5L424	CYLINDER PROM Ver. 1.06-00	1	

< TEST MENU >

AV SYSCON IC60102 : 1.25-00
 IC60802 : 1.25-00
 KEYBOARD IC65001 : 1.05-00

REEL IC2101 : 1.08-00
 * CYLINDER IC2201 : 1.06-00

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Order No. VSD9804SD628

Technical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject : Software Version Up Grades

Please use this supplement together with the Service Manual as follows :

Model No.	Bulletin No.	Order No.	Effective from
AJ-LT75E	35	VSD9707M602A/B	C8TNC0001

Board : AV SYSCON (VEP06B53C)
Key Board (VEP06B54C)

The following software have been up-dated to improve the functioning of the VTR.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
IC60102	VSI2332N	VVSI2332P	AV SYSCON PROM Ver. 1.26-00	1	
IC60802	VSI2332N	VVSI2332P	AV SYSCON PROM Ver. 1.26-00	1	
IC65001	VSI2494-5	VSI2494F	KEYBOARD PROM Ver. 1.06-00	1	

< TEST MENU >

* AV SYSCON	IC60102	: 1.26-00	REEL	IC2101	: 1.08-00
*	IC60802	: 1.26-00	CYLINDER	IC2201	: 1.06-00
* KEYBOARD	IC65001	: 1.06-00			

* Note 1 *

The AV SYSCON and Key Board PROM must be up-graded at the same time.

* Note 2 *

User Setting Menu may be reset at the Key Board PROM version up-grade. User Setting Menu must be written down before replacement of the Key Board PROM. Reset the SETUP Menu before replacement of Key Board PROM, and set "001 : LCD SUPER" of the Basic Menu to ON. After replacement of PROM, confirm that the User Setting Menu is reset or not. If it is reset, set again which was written down before replacement. And just make sure that the Service Menu and Hour Meter Data show the same data as before.

< Improvement of Performance >

< AV SYSCON >

1. Tape speed of the tape end/beginning is too fast during DVCAM Playback mode. It is improved.

* Note *

The Reel PROM version must be more than 1.08-00.

2. LOW RF may be detected incorrectly. It is improved.
3. Playback picture may be poor after Slow FWD and Slow REV mode. It is improved.

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4. Picture may become fully white momentarily when the STILL key is pressed after pressing the REW or FF key and then, pressed the STILL key repeatedly. (STOP/FWD/REV is set to EE) Because ECC reset condition is limited to VV, the RESET status is not cleared by the switching from VV to EE and setting timing. It is improved.
 5. Framing may become abnormal when the free noise is input. It is improved.
 6. Audio sound may be heard when the EE mode is selected without selecting the audio during STILL mode. When the audio channel is not selected, audio is not muted. It is improved.
 7. When the white noise (satellite) is input after the power is turned ON, picture and audio may be abnormal. Because the white noise is detected as a input signal. It is improved. The unit goes to Forced REF mode during initializing communication.
 8. Audio may not be recorded when no input video signal on the VTR1 side. It is improved.
 9. Horizontal noise may appear on the picture when the NSTD signal is input. It is improved.
 10. When the 4CH recorded tape is played back which menu is set except DV sound MIX output on the VTR1 side after turning the power ON, 4CH MIX is played back. It is improved. The latest menu data is referred.
 11. Noisy sound may be heard when full EE is selected during STILL mode selecting INT/EXT mode. It is improved. Noisy sound may be muted.
 12. EE sound may be heard momentarily right before output the audio sound when play back the audio with STAND-BY OFF mode selecting the S/F/R SEL = EE on the VTR2 side. It is improved.
 13. EE sound may be muted in spite of input the audio on the VTR1 side during First Edit mode. It is improved.
 14. Playback picture may be sometimes frozen when the mode is STAND-BY OFF mode with setting STOP mode = REC on the VTR1 side. It is improved.
 15. Playback picture may be frozen or not renewed partially when the picture is played back after reverse Slow mode on the JOG mode. It is improved.
- * Note * This occurs only REEL PROM version 1.06-00.**
16. Select EE may be malfunctioned during Manual Edit mode. It is improved.
 17. When the power is turned ON with displaying the CTL count while inserting the DV tape, the CTL count becomes from 00:00:00.00 to 00:00:06.00. It is improved.
 18. CTL count may be shifted from the reference TC count when executing the FF/REW mode while displaying CTL of the DV tape. It is improved.

< Key Board >

1. To standard the software with NTSC version, the software version is up-graded to 1.06-00.

V19922J
V19923

Order No. VSD9804SD629

Technical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject : Software Version Up Grades

Please use this supplement together with the Service Manual as follows :

Model No.	Bulletin No.	Order No.	Effective from
AJ-LT75E	36	VSD9707M602A/B	B8TNB0021

Board : Servo (VEP02545F)

The following software has been up-dated to improve the functioning of the VTR.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
IC2101	M37774M5L420	M37774M5L433	SERVO PROM Ver. 1.09-00	1	
IC2201	M37774M5L424	M37774M5L432	CYLINDER PROM Ver. 1.07-00	1	

< TEST MENU >

AV SYSCON	IC60102 : 1.26-00	* REEL	IC2101 : 1.09-00
	IC60802 : 1.26-00	* CYLINDER	IC2201 : 1.07-00
KEYBOARD	IC65001 : 1.06-00		

< Note >

1. The Reel and Cylinder PROM must be up-graded at the same time.
2. Hardware modification for the Digital 1 and 2 Boards must be performed at the same time. Please refer to the Technical Bulletin No. VSD9711SD622.

< Improvement of Performance >

< Reel >

1. When the unit goes to Stand-by OFF mode after Pinch OFF mode, tape remaining is not memorized. It is improved.
2. When the tape is rarely wound to the T Reel and then supplied from the S Reel during Unloading mode, tape reverse winding or tape looseness may occur. It causes the Reel microcomputer malfunction. It results in tape damage. It is improved.
3. When the unit goes to Loading mode before changing the mode from the Stand-by OFF mode to the Loading Completion mode (stop position), the tape may be rarely supplied from the S Reel at the rising edge of the Loading mode. Tape hunting may occur. It results in tape damage. It is improved.
4. When the Slow Playback (less than X1 mode) is performed for a long time (4 ~ 5 hours) continuously, the Reel Microcomputer may malfunction. It results in tape damage. It is improved.
5. As the rising edge from CUE UP to PLAY mode is too late, the capstan override is delayed. It is improved.
6. Tape speed around the tape end/beginning is too fast (X7) using with DVCAM tape. It is improved.

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< Cylinder >

To standardize the PROM, the following improvement is improved.

1. When the mode is changed as shown below, audio is muted for a moment and then output. To improve the quick start after mode change, the output of servo lock information is changed or CTL duty detection is improved.
STILL → PLAY, REV → STILL → PLAY SLOW → PLAY
2. SERVO LOCK lamp is lightened during X1 JOG/SHTL mode. To correspond the Studio VTR, it is not lightened.
3. Servo may not lock according to the tracking data during CTL control mode. It is improved.
4. Servo may not lock when the mode is changed from STILL to PLAY mode. It is improved.
5. AUTO OFF may not be displayed when the Cylinder does not rotate after power ON. It is improved.
6. Improvement of PG Auto Adjustment accuracy.
7. Servo may not lock under low temperature. (-20°C) It is improved.

V19922✓

V19923

Order No. VSD9804SD630

Technical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject : Improvement of Picture Disturbance

Please use this supplement together with the Service Manual as follows :

Model No.	Bulletin No.	Order No.	Effective from
AJ-LT75E	37	VSD9707M602A/B	C8TNC0001

Board : Analog 1 (VEP04640B)

Analog 2 (VEP04641B)

Symptom : Upper side of the picture may be disturbed when the noisy signal is input.

Cause : When the noisy signal is input, SYNC SEPA circuit of the Video Input may malfunction. It causes the 13.5MHz PLL unlock. It results in picture disturbance.

Remedy : To improve the picture, margin for the noise on the video input is increased.

1. < Analog 1 > P.C. Board version is VEP04640B (VJB04640-1) which produced before Serial Number D8TNB-....

- 1). Delete resistor R3472 (1/16W, 2.2K Ω) from the component side as shown in figures 1 and 2.
- 2). Delete resistor R3473 (1/16W, 220 Ω) from the foil side as shown in figure 1.
- 3). Change resistor R3486 from 1/16W, 2.2K Ω to 1/16W, 1.5K Ω on the foil side as shown in figure 1.
- 4). Float the leg of pin #8 of IC3417 and then cut it on the component side as shown in figures 1, 2 and 3.
- 5). Add a resistor (1/4W, 150K Ω) between pins #10 and #14 of IC3417 on the component side as shown in figures 1 and 2.
- 6). Connect a jumper wire between pins #2 and #6 of IC3417 on the component side as shown in figures 1 and 2.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
R3472	ERJ3RBD222	---	M. RESISTOR CH 1/16W 2.2K	1→0	
R3473	ERJ3RBD221	---	M. RESISTOR CH 1/16W 220	1→0	
R3486	ERJ3RBD222	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	
	---	ERDS2TJ154	C. RESISTOR 1/4W 150K	0→1	

Ref. No.	Schematic Diagram		P.C. Board	
	Page	Area No.	Page	Area No.
R3472	2-79	A-2 (3/27)	3-5	H-1 (C)
R3473	2-79	A-2 (3/27)	3-5	H-1 (F)
R3486	2-79	A-3 (3/27)	3-5	H-1 (F)

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2. < Analog 1 > P.C. Board version is VEP04640B (VJB04640-1) which produced after Serial Number D8TNB.....

- 1). Delete resistor R3472 (1/16W, 2.2K Ω) from the component side as shown in figures 1 and 2.
- 2). Delete resistor R3473 (1/16W, 220 Ω) from the foil side as shown in figure 1.
- 3). Change resistor R3486 from 2.2K Ω to 1.5K Ω on the foil side as shown in figure 1.
- 4). Float the leg of pin #8 of IC3417 and then cut it on the component side as shown in figures 1, 2 and 3.
- 5). Connect a jumper wire between pins #2 and #6 of IC3417 on the component side as shown in figures 1 and 2.
- 6). Capacitor C3465 (50V/1 μ) is not installed.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
C3465	ECEV1HN010Q	---	E. CAPACITOR CH 50V 1U	1→0	
R3472	ERJ3RBD222	---	M. RESISTOR CH 1/16W 2.2K	1→0	
R3473	ERJ3RBD221	---	M. RESISTOR CH 1/16W 220	1→0	
R3486	ERJ3RBD222	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	

Ref. No.	Schematic Diagram		P.C. Board	
	Page	Area No.	Page	Area No.
C3465	2-79	A-2 (3/27)	3-5	H-1 (C)
R3472	2-79	A-2 (3/27)	3-5	H-1 (C)
R3473	2-79	A-2 (3/27)	3-5	H-1 (F)
R3486	2-79	A-3 (3/27)	3-5	H-1 (F)

3. < Analog 2 > P.C. Board version VEP04641B (VJB04641-1) which produced before Serial Number D8TNB.....

- 1). Delete resistors R3472 (1/16W, 2.2K Ω) and R3473 (1/16W, 220 Ω) from the foil side as shown in figure 4.
- 2). Change resistor R3486 from 1/16W, 2.2K Ω to 1/16W, 1.5K Ω on the foil side as shown in figure 4.
- 3). Float the leg of pin #8 of IC3417 and then cut it on the component side as shown in figures 4 and 5.
- 4). Add a resistor (1/4W, 150K Ω) between pins #10 and #14 of IC3417 on the component side as shown in figures 4 and 5.
- 5). Connect a jumper wire between pins #2 and #6 of IC3417 on the component side as shown in figures 4 and 5.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
R3472	ERJ3RBD222	---	M. RESISTOR CH 1/16W 2.2K	1→0	
R3473	ERJ3RBD221	---	M. RESISTOR CH 1/16W 220	1→0	
R3486	ERJ3RBD222	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	
	---	ERDS2TJ154	C. RESISTOR 1/4W 150K	0→1	

Ref. No.	Schematic Diagram		P.C. Board	
	Page	Area No.	Page	Area No.
R3472	2-106	A-2 (3/27)	3-6	J-6 (F)
R3473	2-106	A-2 (3/27)	3-6	J-6 (F)
R3486	2-106	A-3 (3/27)	3-6	J-6 (F)

4. < Analog 2 > P.C. Board version is VEP04641B (VJB04641-1) which produced after Serial Number D8TNB.....

- 1). Delete resistors R3472 (1/16W, 2.2K Ω) and R3473 (1/16W, 220 Ω) from the foil side as shown in figure 4.
- 2). Change resistor R3486 from 2.2K Ω to 1.5K Ω on the foil side as shown in figure 4.
- 3). Float the leg of pin #8 of IC3417 and then cut it on the component side as shown in figures 4 and 5.
- 4). Connect a jumper wire between pins #2 and #6 of IC3417 on the component side as shown in figures 4 and 5.
- 5). Capacitor C3465 (50V/1 μ) is not installed.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
C3465	ECEV1HN010Q	---	E. CAPACITOR CH 50V 1U	1→0	
R3472	ERJ3RBD222	---	M. RESISTOR CH 1/16W 2.2K	1→0	
R3473	ERJ3RBD221	---	M. RESISTOR CH 1/16W 220	1→0	
R3486	ERJ3RBD222	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	

Ref. No.	Schematic Diagram		P.C. Board	
	Page	Area No.	Page	Area No.
C3465	2-106	A-2 (3/27)	3-6	J-6 (C)
R3472	2-106	A-2 (3/27)	3-6	J-6 (C)
R3473	2-106	A-2 (3/27)	3-6	J-6 (F)
R3486	2-106	A-3 (3/27)	3-6	J-6 (F)

Analog 1 (3/27) Schematic Diagram (VEP04640A/C)

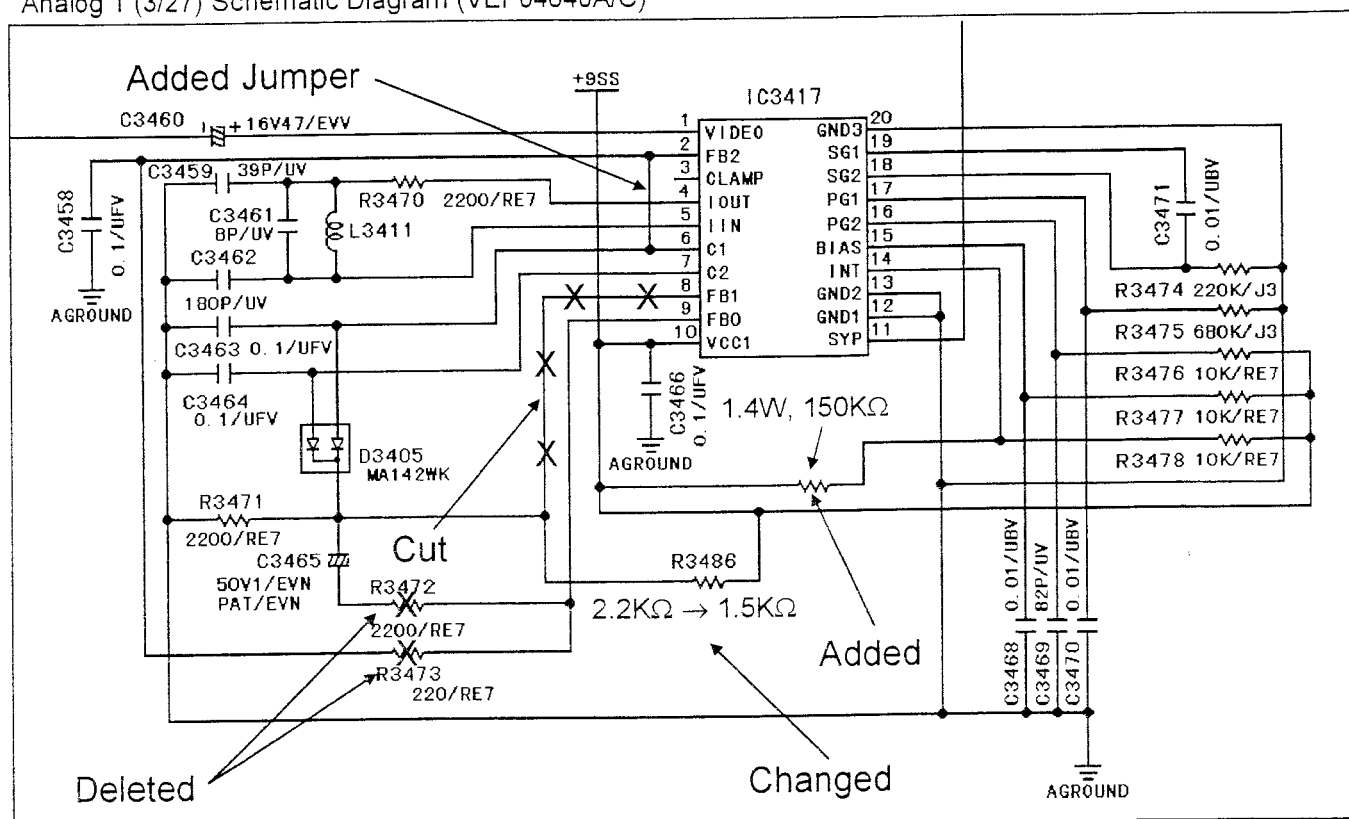
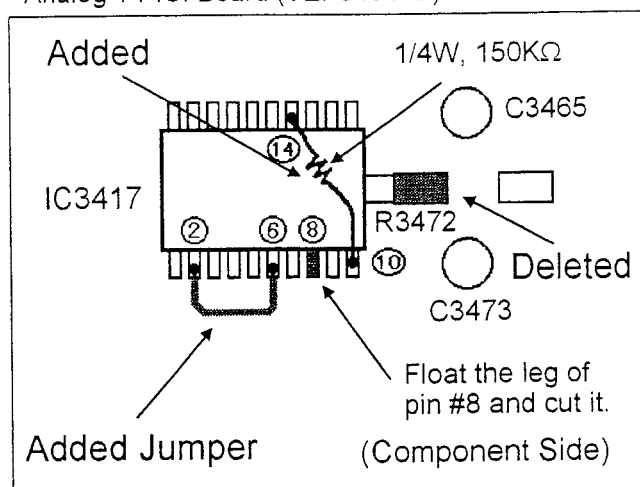
Fig. 1 Page 2-79(A-B-2~5)
Analog 1 P.C. Board (VEP04640B)

Fig. 2 Page 3-5(H-1)

Analog 1 P.C. Board (VEP04640B) / Analog 2 P.C. Board (VEP04641B)

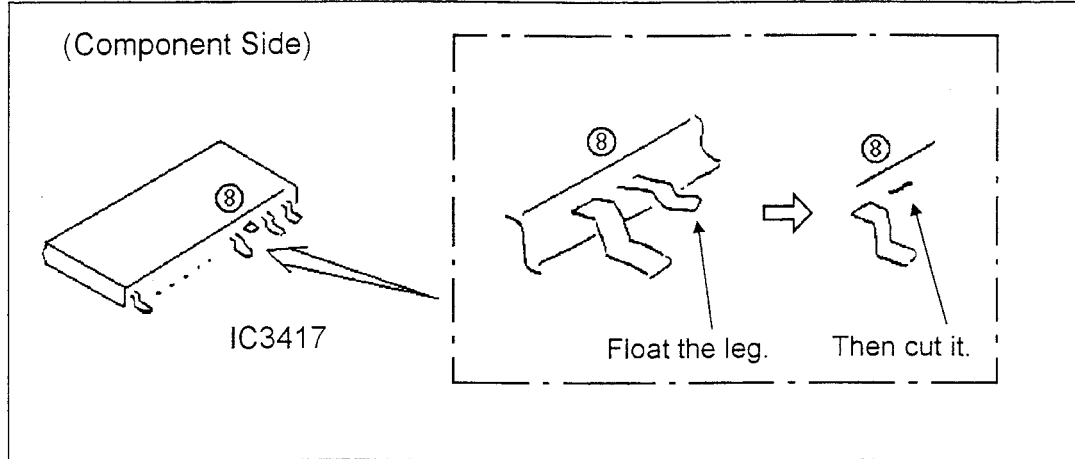


Fig. 3 Page 3-5 (G-1) / Page 3-6 (J-6)

Analog 2 (3/27) Schematic Diagram (VEP04641B)

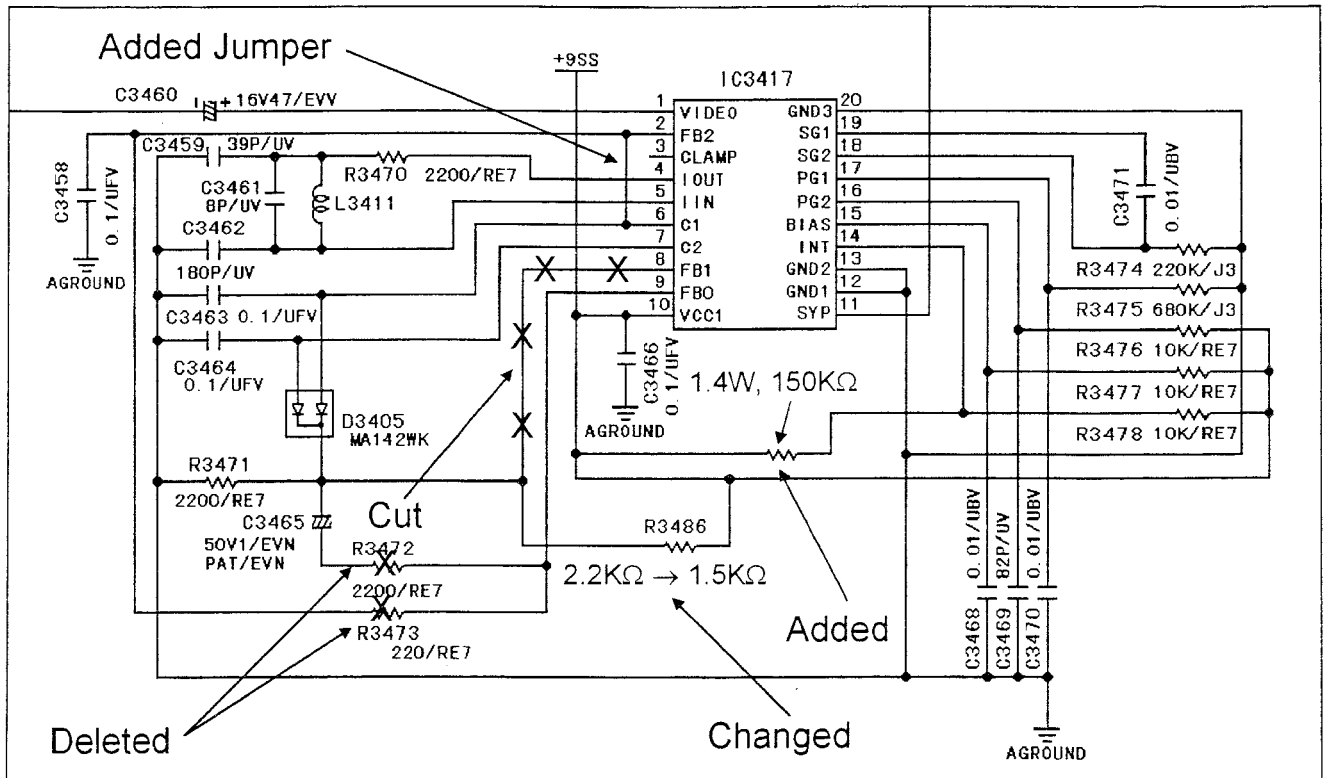


Fig. 4 Page 2-106 (A~B-2~5)

Analog 2 P.C. Board (VEP04641B)

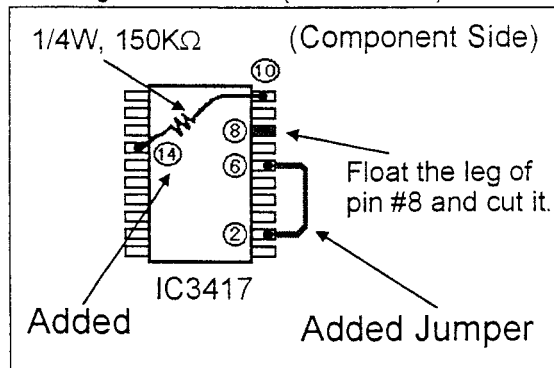


Fig. 5 Page 3-5 (J-6)

Technical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject : Prevention of Screw Looseness

Please use this supplement together with the Service Manual as follows :

Model No.	Bulletin No.	Order No.	Effective from
AJ-LT75E	39	VSD9707M602A	G7TNA0001

Cassette Compartment Assembly

Symptom : Screws for Cassette Compartment as shown below may be loosened due to the vibration.

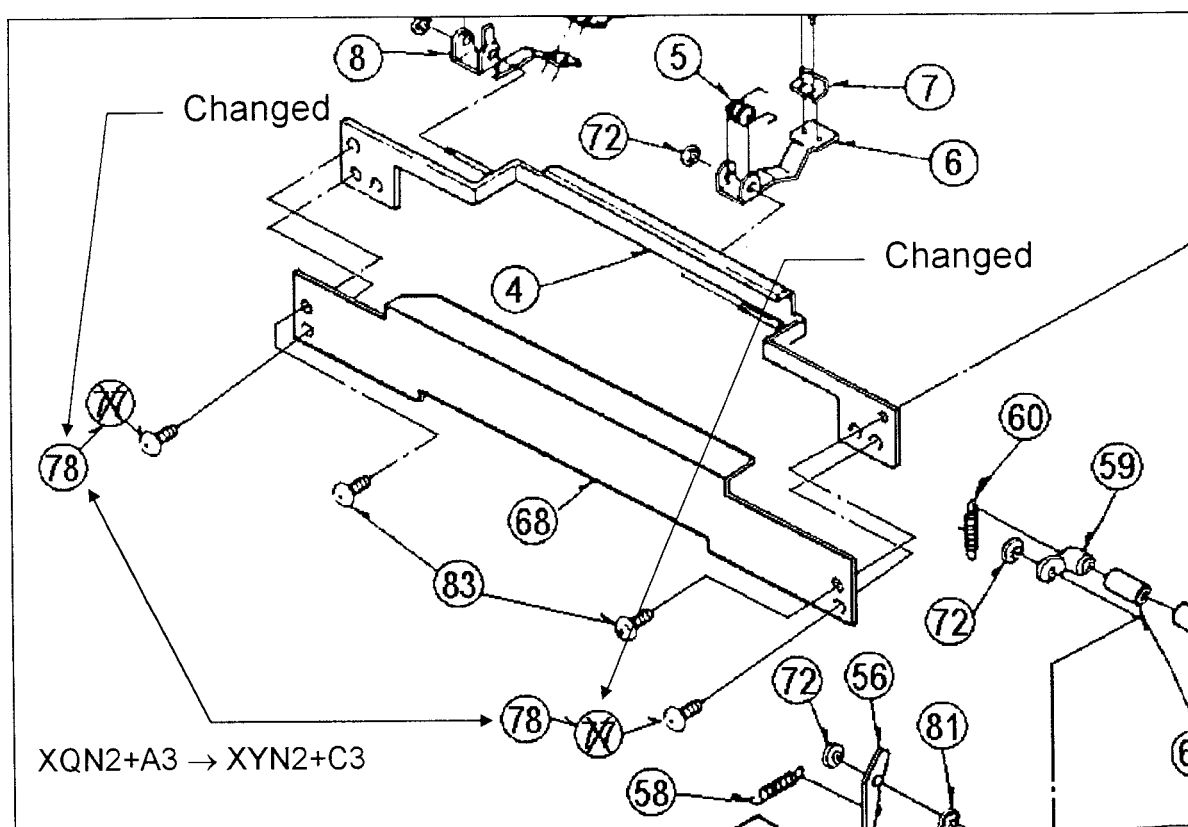
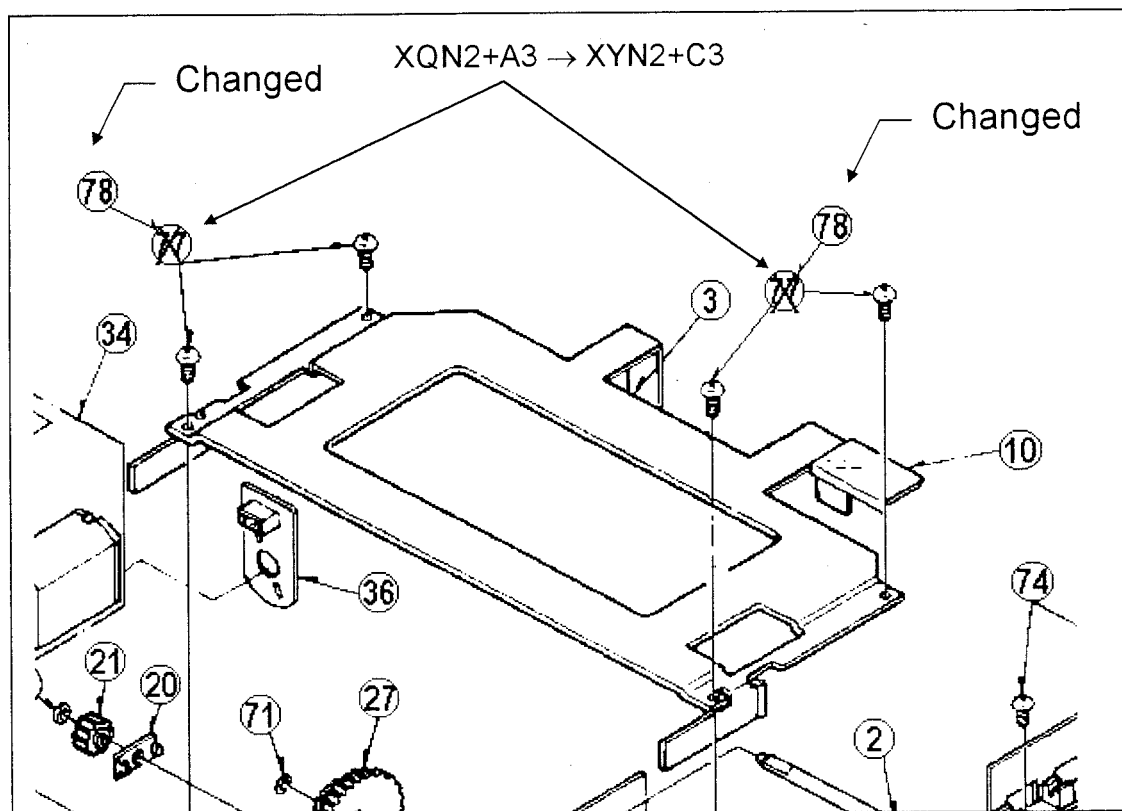
Remedy : To prevent the screw from loosening, the screws are changed from XQN2+A3 to XYN2+C3 as shown below.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
77	XQN2+A3	---	SCREW	2→0	
78	---	XYN2+C3	SCREW	0→2	

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Technical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject : Change of Fixing Screws for Top Plate Unit

Please use this supplement together with the Service Manual as follows :

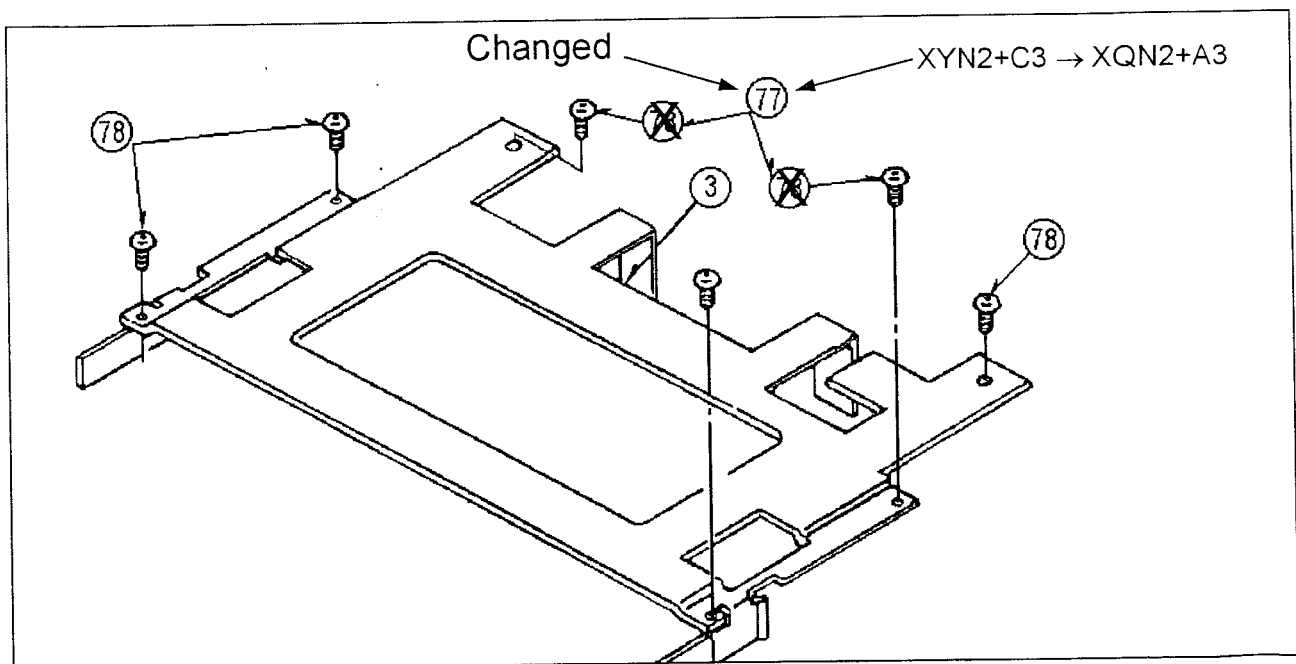
Model No.	Bulletin No.	Order No.	Effective from
AJ-LT75E	40	VSD9707M602A	K7TNB0001

Cassette Compartment Assembly

Symptom : Fixing screws for the Top Plate Unit may touch the Casing Parts.

Remedy : To prevent it, the fixing screws for the Top Plate Unit are changed from XYN2+C3 to XQN2+A3 as shown below.

Part Number		Part Name & Descriptions	Pcs	Remarks
Ref. No.	Original Part No.			
77	---	XQN2+A3	0→2	
78	XYN2+C3	---	2→0	



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Technical Bulletin

Supplement to the Service Manual

Broadcast Product

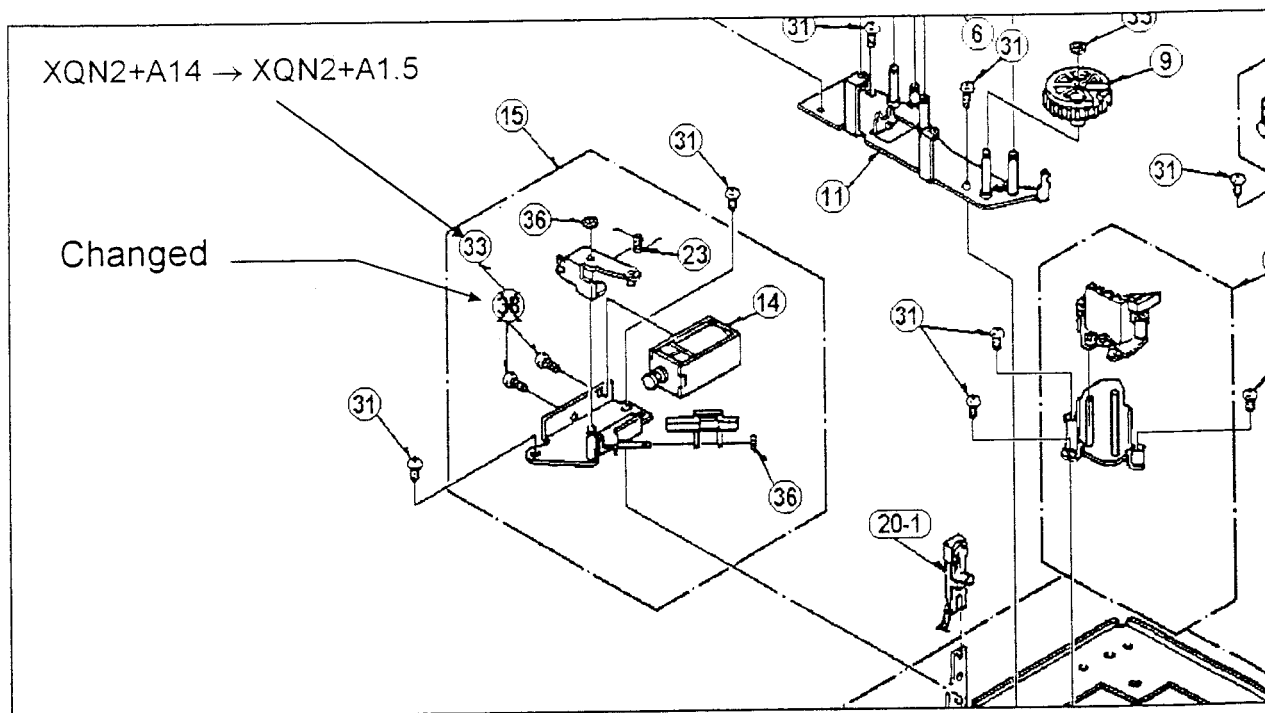
Subject : Service Manual Correction

Please use this supplement together with the Service Manual as follows :

Model No.	Bulletin No.	Order No.	Effective from
AJ-LT75E ✓	41	VSD9707M602A	—
AJ-D230E	49	VSD9708M605	—

Sub Chassis Assembly

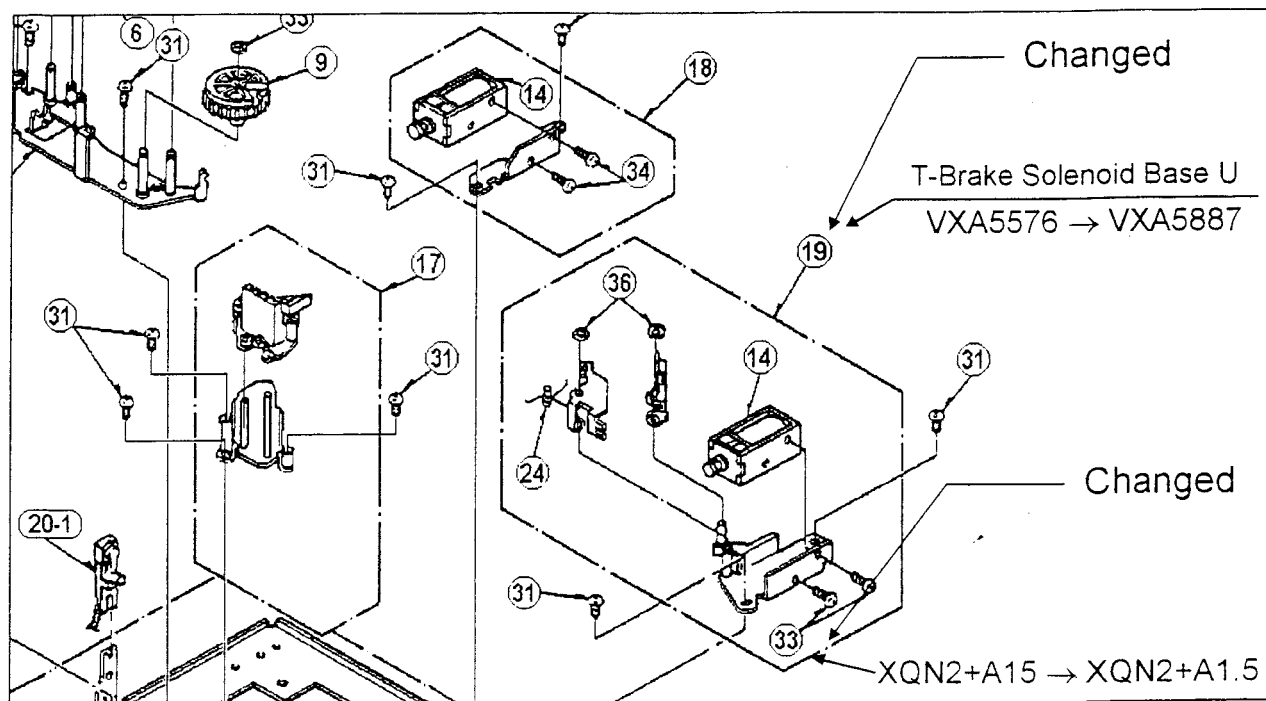
Part Number		Part Name & Descriptions	Pcs	Remarks
Ref. No.	Original Part No.			
19	VXA5576	VXA5887	1	
33	XQN2+A15	XQN2+A1.5	2→4	
38	XQN2+A14	—	2→0	



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Technical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject : Reduction of Click Sound from Cleaner Solenoid Unit

Please use this supplement together with the Service Manual as follows :

Model No.	Bulletin No.	Order No.	Effective from
AJ-LT75E	42	VSD9707M602A	K7TNB0001

Mechanical Chassis Assembly (2)

Symptom : Click sound may be heard from the Cleaner Solenoid Unit when it functions.

Remedy : To reduce the click sound from the Cleaner Solenoid Unit, the Cleaner Solenoid is changed to the silencer type as shown below.

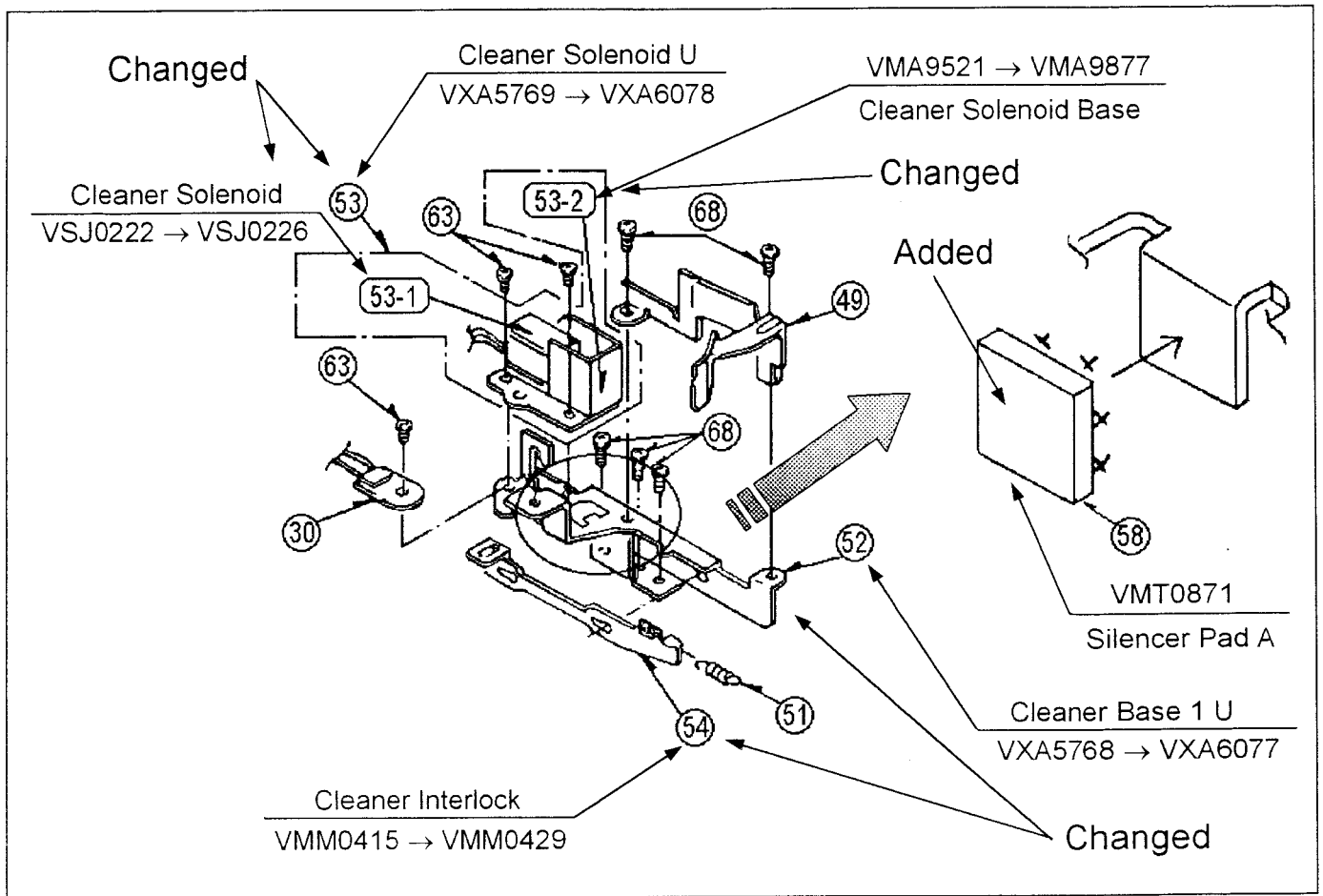
- 1). Change the Cleaner Base 1 Unit from VXA5768 to VXA6077.
- 2). Change the Cleaner Solenoid Unit from VXA5769 to VXA6078.
- 3). Change the Cleaner Solenoid from VSJ0222 to VSJ0226.
- 4). Change the Cleaner Solenoid Base from VMA9521 to VMA9877.
- 5). Change the Cleaner Interlock from VMM0415 to VMM0429.
- 6). Add a Silencer Pad A (VMT0871) to the Cleaner Base 1 Unit by adhesive as shown in figure 1.

Part Number						
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks	
52	VXA5768	VXA6077	CLEANER BASE 1 U	1		
53	VXA5769	VXA6078	CLEANER SOLENOID U	1		
53-1	VSJ0222	VSJ0226	CLEANER SOLENOID	1		
53-2	VMA9521	VMA9877	CLEANER SOLENOID BASE	1		
54	VMM0415	VMM0429	CLEANER INTERLOCK	1		
58	--	VMT0871	SILENCER PAD A	0→1		

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Technical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject : Prevention of M and L Cassettes Mis-detection

Please use this supplement together with the Service Manual as follows :

Model No.	Bulletin No.	Order No.	Effective from
AJ-LT75E	43	VSD9707M602A	L7TNB0001

Cassette Compartment Assembly

Symptom : M and L cassettes may be detected incorrectly.

Cause : ML Detection Spring may catch in the Cassette Pressure Roller.

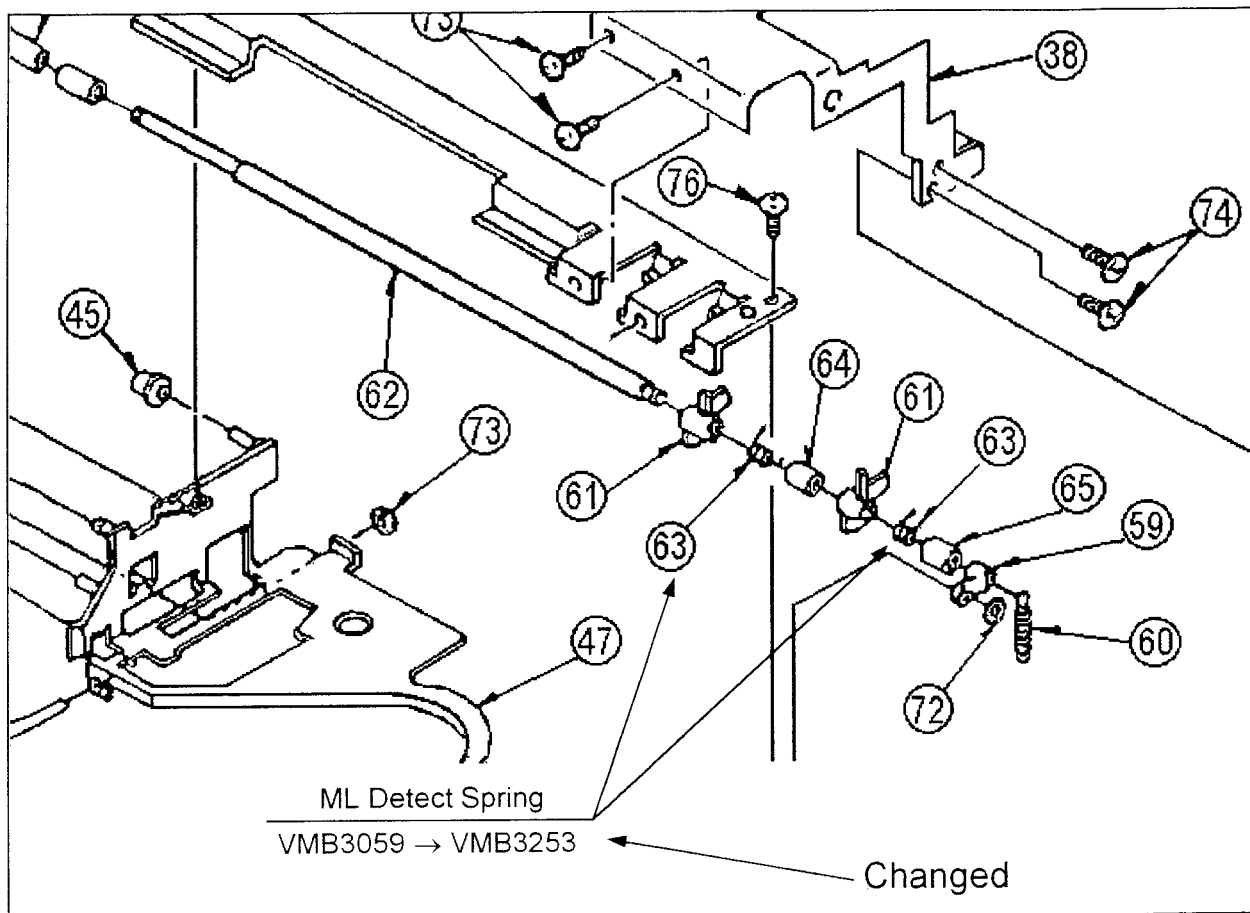
Remedy : To prevent it, the ML Detection Spring is changed from VMB3059 to VMB3253 as shown below.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
63	VMB3059	VMB3253	ML DETECTION SPRING	2	

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Technical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject : Change of Screw for Tension Sensor Unit

Please use this supplement together with the Service Manual as follows :

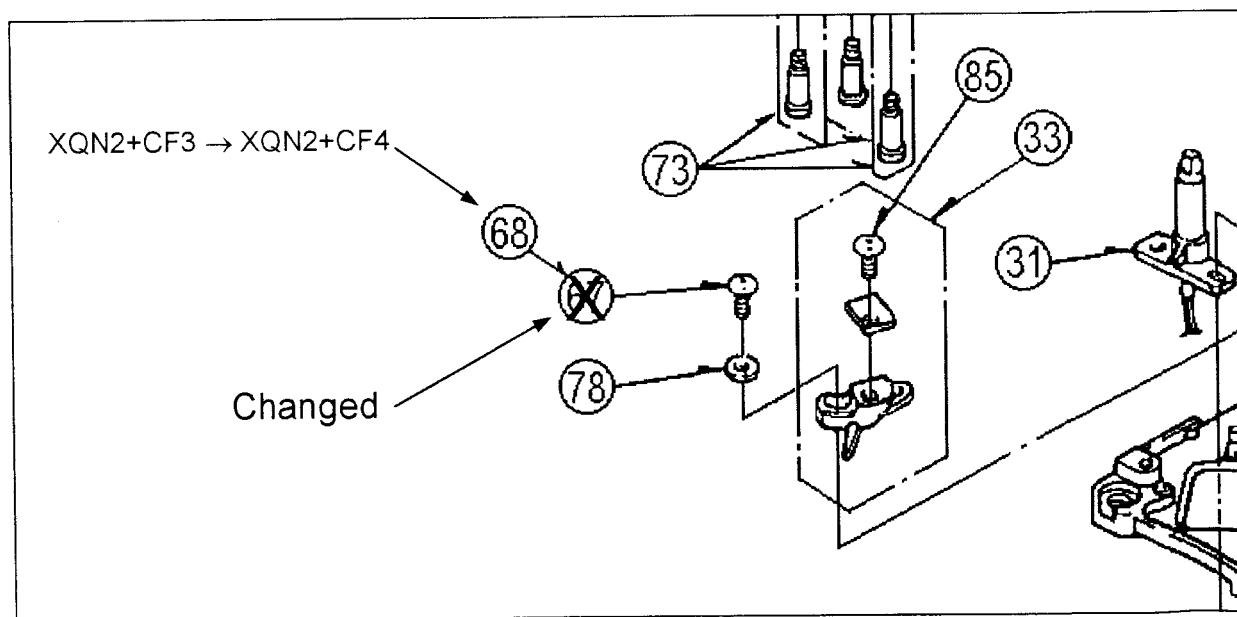
Model No.	Bulletin No.	Order No.	Effective from
AJ-LT75E	44	VSD9707M602A	K7TNB0001

Mechanical Chassis Assembly (2)

Reason for Change

- ☐ The following part(s) has (have) been changed for serviceability improvement.
- ☐ The following part(s) has (have) been changed for productivity improvement.
- ☒ The following part(s) has (have) been changed for standardization.
- ☐ The following part(s) has (have) been changed for the safety regulation.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
67	XQN2+CF3	---	SCREW	1→0	
68	---	XQN2+CF4	SCREW	0→1	



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Technical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject : Prevention of Slide Rod Touching with S Brake Release Angle

Please use this supplement together with the Service Manual as follows :

Model No.	Bulletin No.	Order No.	Effective from
AJ-LT75E	45	VSD9707M602A	L7TNB0001

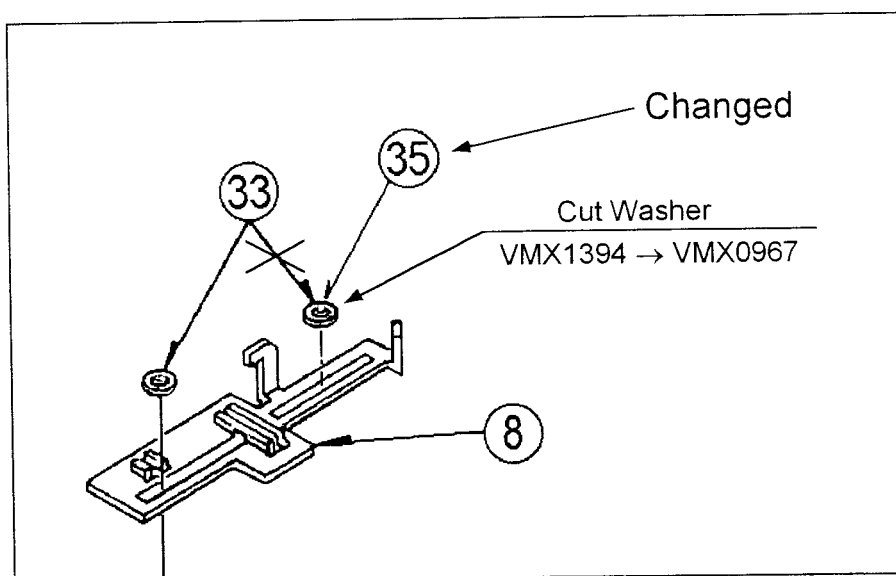
Mechanical Chassis Assembly (1)

Symptom : Slide Rod Unit may touch with the S Brake Release Angle.

Cause : Due to the looseness of the Slide Rod Unit in up and down directions.

Remedy : To prevent the Slide Rod Unit from touching with the S Brake Release Angle, the washer is changed from VMX1394 to VMX0967 as shown below.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
33	VMX1394	VMX1394	WASHER	2→1	
35	---	VMX0967	CUT WASHER	0→1	



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Technical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject : Improvement of Brake Release Angle Unit

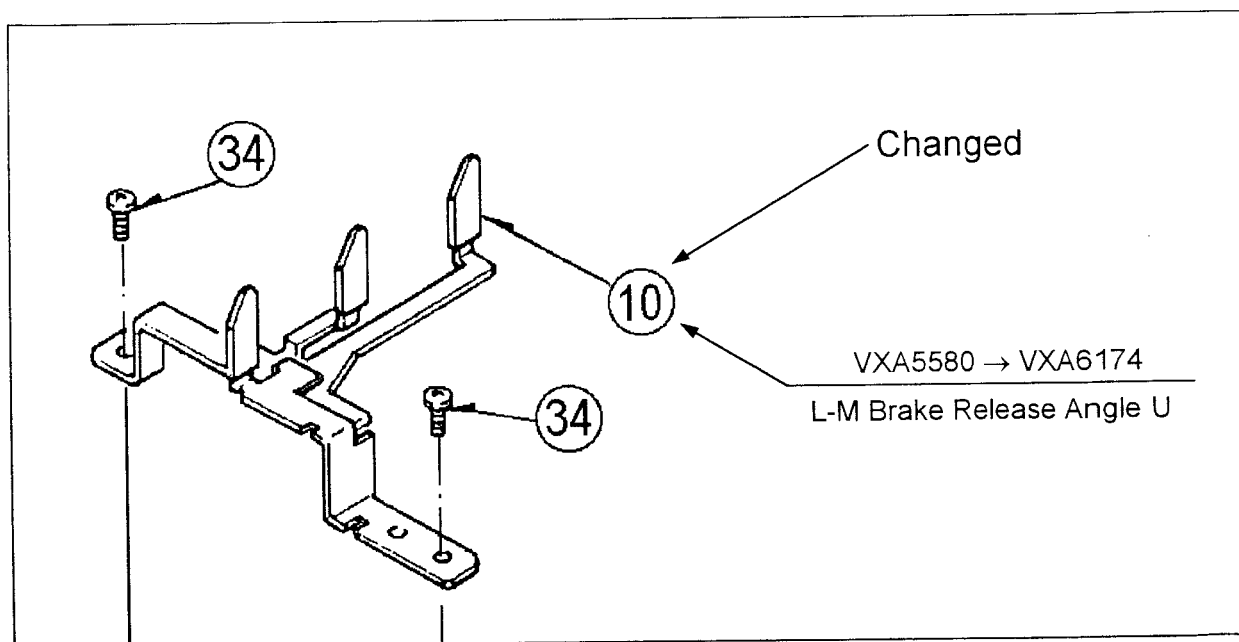
Please use this supplement together with the Service Manual as follows :

Model No.	Bulletin No.	Order No.	Effective from
AJ-LT75E	46	VSD9707M602A	L7TNB0001

Mechanical Chassis Assembly (1)

To improve the function of Brake Release Angle Unit, it is changed from VXA5580 to VXA6174 as shown below.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
10	VXA5580	VXA6174	L-M BRAKE RELEASE ANGLE U	1	



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Technical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject : Improvement of Tension Leg Spring

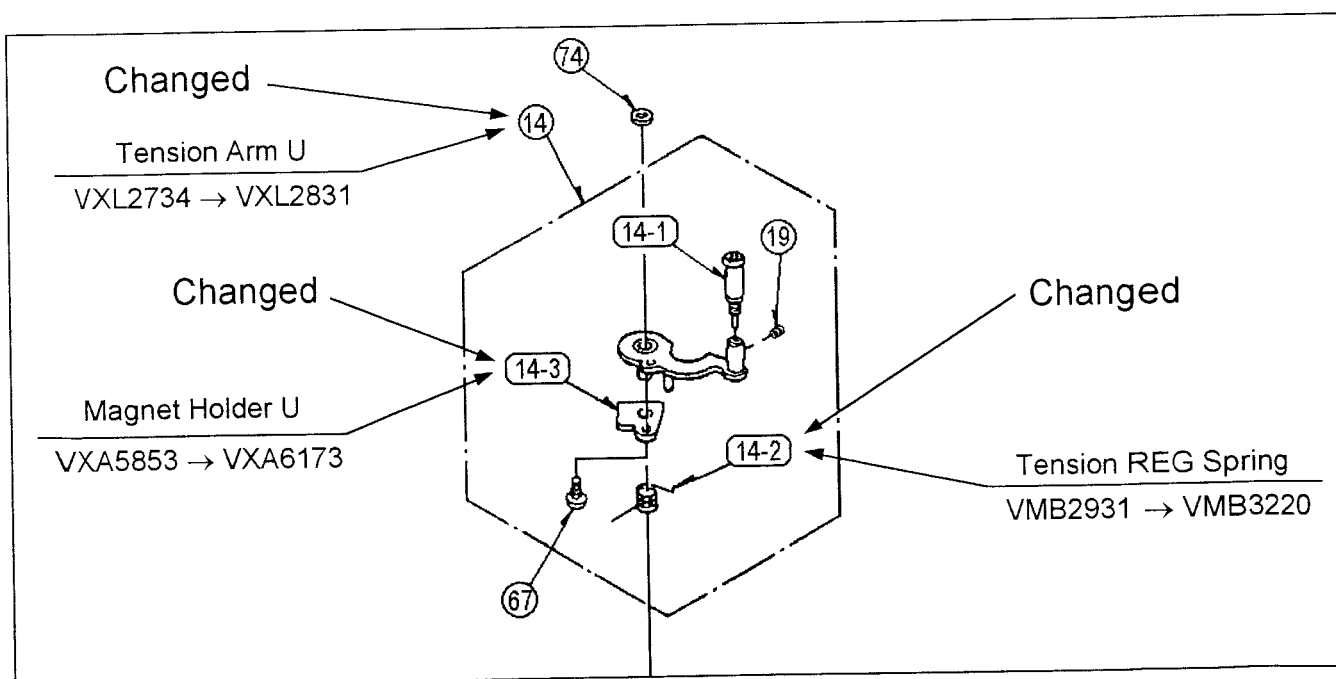
Please use this supplement together with the Service Manual as follows :

Model No.	Bulletin No.	Order No.	Effective from
AJ-LT75E	47	VSD9707M602A	A8TNB0001

Mechanical Chassis Assembly (2)

To reduce the coil portion wear of the Tension Regulator Spring, the Tension Regulator Spring is changed from VMB2931 to VMB3220 as shown below. According to this change, the Tension Arm Unit and Magnet Holder Unit are changed as shown below.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
14	VXL2734	VXL2831	TENSION ARM U	1	
14-2	VMB2931	VMB3220	TENSION REG SPRING	1	
14-3	VXA5853	VXA6173	MAGNET HOLDER U	1	



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Technical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject : Improvement of Pinch Roller

Please use this supplement together with the Service Manual as follows :

Model No.	Bulletin No.	Order No.	Effective from
AJ-LT75E	51	VSD9707M602A	C8TNC0001

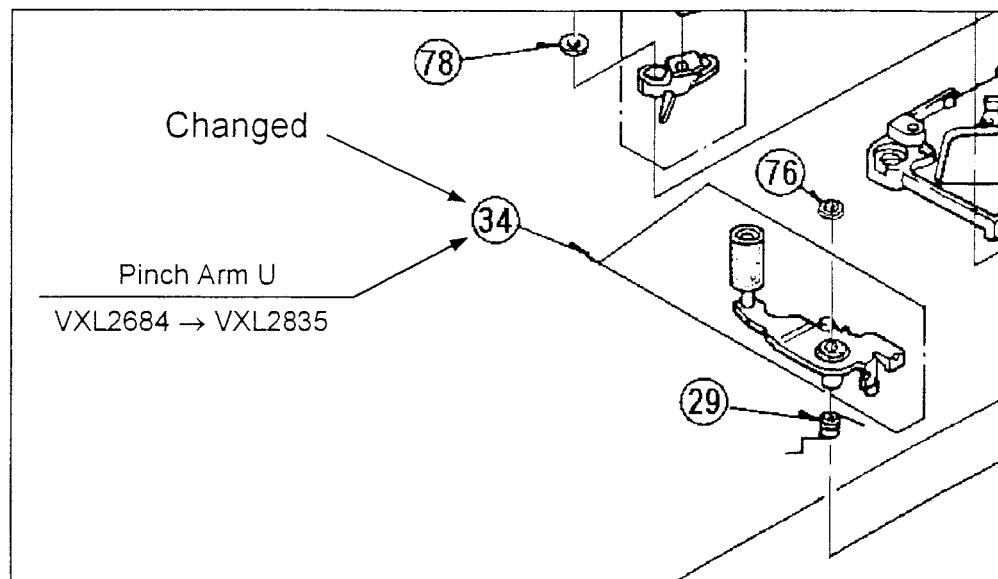
Mechanical Chassis Assembly (2)

Symptom : Pinch Roller may be cracked.

Cause : Due to the lack of plasticizer from the Pinch Roller rubber and atmosphere. (Ozone) It results in Pinch Roller crack.

Remedy : To prevent it, the Pinch Arm Unit is changed from VXL2684 to VXL2835 as shown below.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
34	VXL2684	VXL2835	PINCH ARM U	1	



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Technical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject : Improvement of Search Dial

Please use this supplement together with the Service Manual as follows :

Model No.	Bulletin No.	Order No.	Effective from
AJ-LT75E	52	VSD9707M602A	C8TNC0001

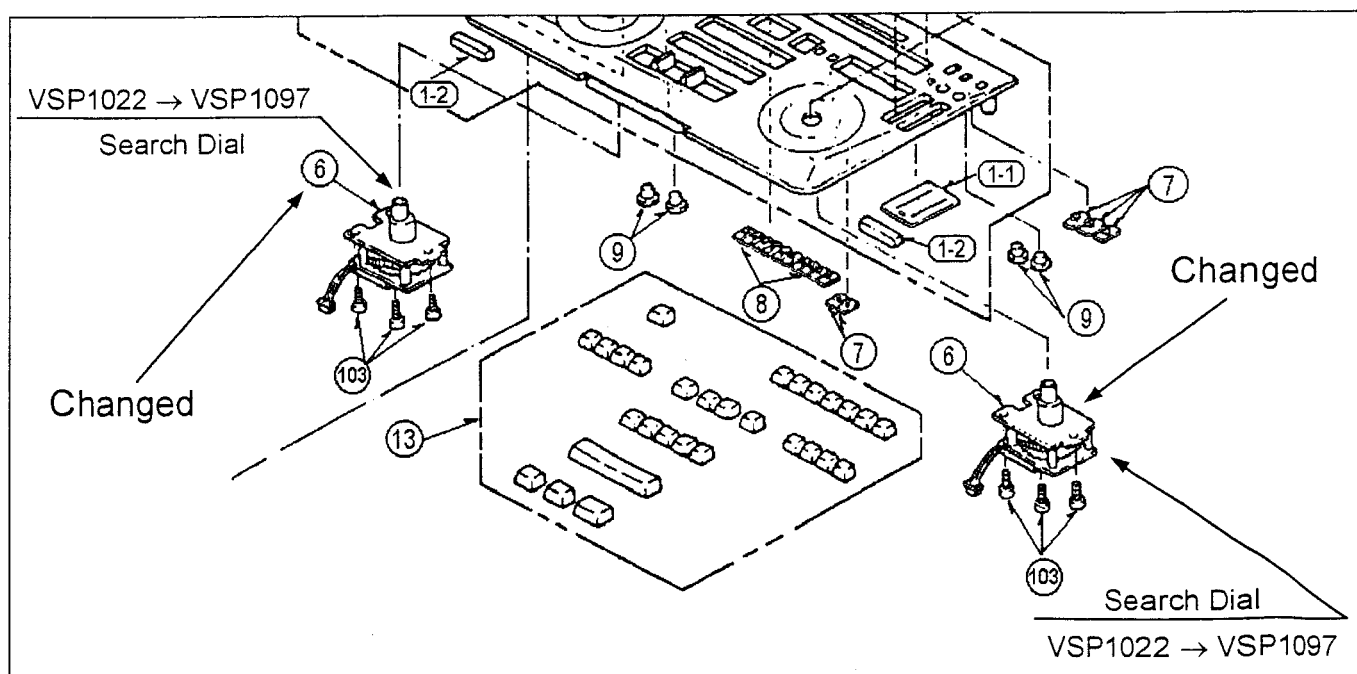
Chassis Frame Assembly (3)

Symptom : Noisy sound may be heard from the Search Dial Unit.

Cause : Due to the wear of washers in the Search Dial.

Remedy : To prevent it, the material of washers for the Search Dial is changed. According to this change, the Search Dials are changed from VSP1022 to VSP1097 as shown below.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
6	VSP1022	VSP1097	SEARCH DIAL	2	



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Technical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject : Improvement of Main Cam Arm Unit

Please use this supplement together with the Service Manual as follows :

Model No.	Bulletin No.	Order No.	Effective from
AJ-LT75E	57	VSD9707M602A	D8TNC0001

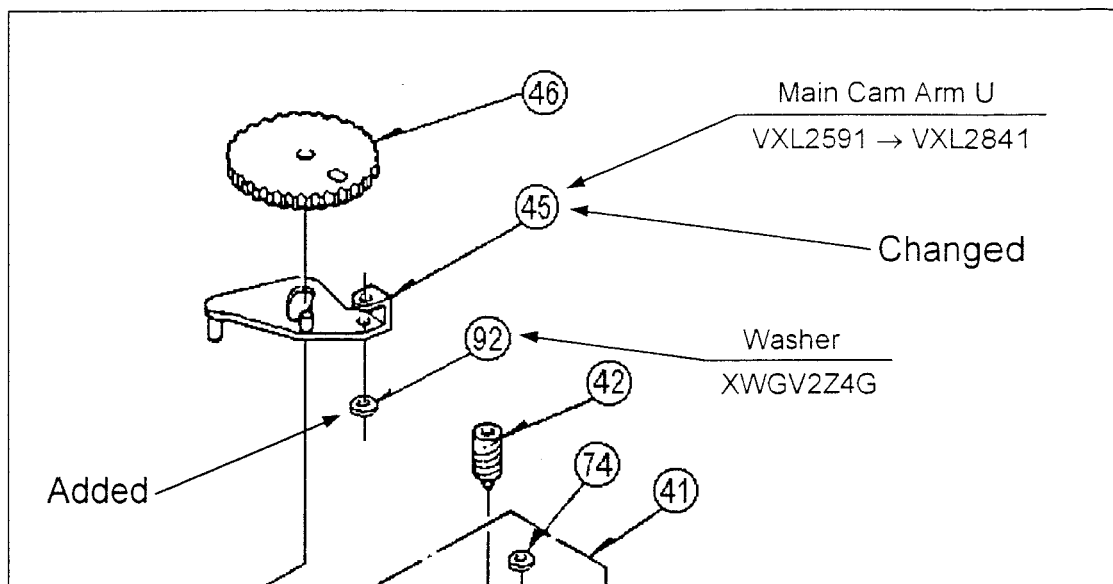
Mechanical Chassis Assembly (2)

Symptom : U-shaped portion of the Main Cam Arm Unit may be broken when the loading is repeated.

Cause : Due to the lack of material strength.

Remedy : To prevent it, the Main Cam Arm Unit is changed from VXL2591 to VXL2841 and the washer (XWGV2Z4G) is added under the Main Cam Arm Unit as shown below.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
45	VXL2591	VXL2841	MAIN CAM ARM U	1	
92	---	XWGV2Z4G	WASHER	0→1	



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Technical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject : Change of Cassette Compartment Assembly

Please use this supplement together with the Service Manual as follows :

Model No.	Bulletin No.	Order No.	Effective from
AJ-D750E/EN	178	VSD9606M502A ✓	Running change
AJ-D850E	15	VSD9903M901A ✓	Running change
AJ-D650E	144	VSD9612MJ01A ✓	Running change
AJ-D640E	144	VSD9612MJ01A ✓	Running change
AJ-D450E	4	VSD9907M904A ✓	Running change
AJ-D440E	4	VSD9907M904A ✓	Running change
AJ-D230E	87	VSD9708M605 ✓	Running change
AJ-D230HE	5	VSD9906M605 ✓	Running change
AJ-LT75E	82	VSD9707M602A ✓	Running change
AJ-LT85E ✓	15	VSD9902M601A ✓	Running change
AJ-D780E	23	VSD9809M612A ✓	Running change

Cassette Compartment Assembly

The parts shown below have been changed for standardization.

V17726 # 2036033
 V24143 # 2022072
 V18115 # 1017074
 V24902 # 2023119
 V20162 # 2019144
 V24833 # 2011104
 ✓ V13522 # 1030051

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
4	VXA5761	VXA6572	FRONT GUIDE 1 ASS'Y	1	
	XYN2+C3	VHD1323	SCREW	11	See the exploded views in the next page.
	XQN2+A3	VHD1323	SCREW	2	See the exploded views in the next page.

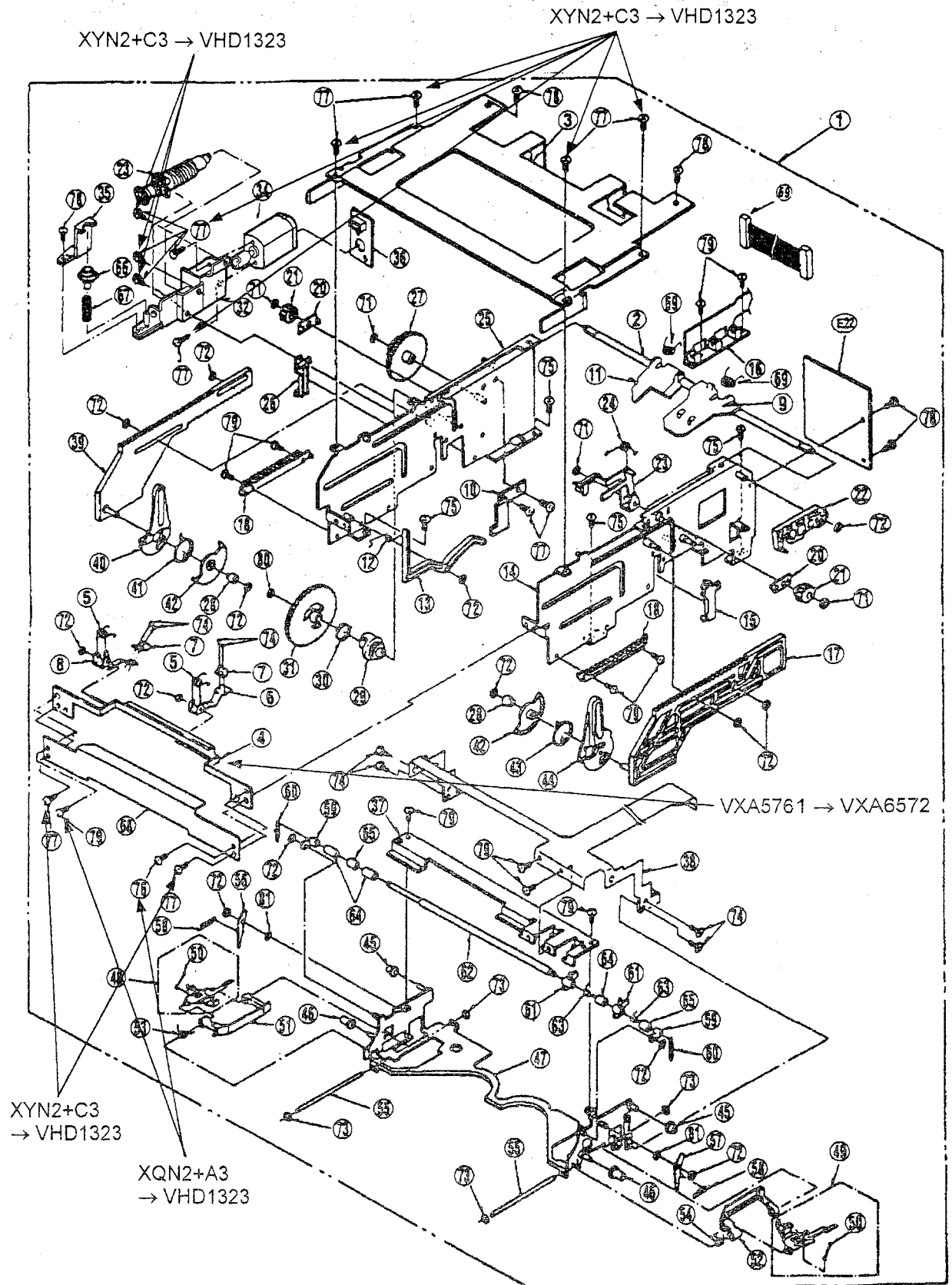
V24079 # 1021081
 V23053 # 1033071

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CASSETTE COMPARTMENT ASSEMBLY



Technical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject : Improvement of Audio Mute during Playback Mode on AJ-DE77E

Please use this supplement together with the Service Manual as follows :

Model No.	Bulletin No.	Order No.	Effective from
AJ-LT75E	67	VSD9707M602A/B	A9TNC0001

Board : Digital 1 (VEP03E38B)

Symptom : When a tape recorded by VTR 1 of AJ-LT75E is played back on a Non-linear Editing System (AJ-DE77E), no monitor audio is output.

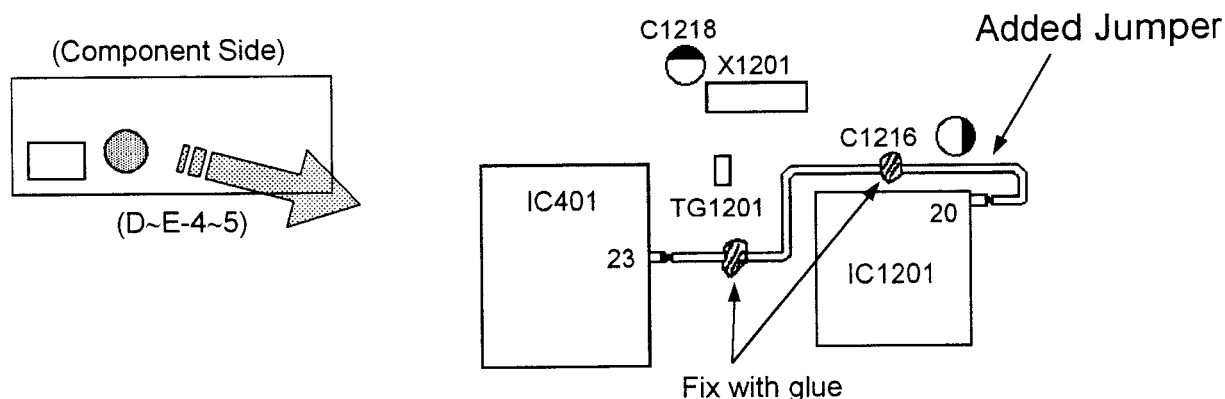
* **Note** * Audio saved to the HDD is normal, and monitor audio is output normally when a tape recorded by VTR 2 is played back.

Cause : DREC signal is not input to ECC from SBC. So the REC START of Source Control in AAUX is always recorded as being "0".
When playing back a tape on AJ-DE77P, AJ-DE77P mutes the audio signal if REC START is "0".

Remedy : A jumper wire has been added to input the DREC signal to ECC from SBC.

< Modification Procedures >

- 1). Connect a jumper wire between pin #23 of IC33401 (IC401) and pin #20 of IC34201 (IC1201) on the component side.
 - 2). Confirm that there is no conduction state between pin #20 of IC34201 (IC1201) and pin #128 of IC33401 (IC401).
 - 3). Confirm that there is no conduction state between pin #20 and pin #7 of IC34201 (IC1201).
- * Procedures (2) and (3) should be performed to confirm that there is no short circuit between pin #23 of IC33401 and its next pins.



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Technical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject : Reduction of Momentarily Audio Mute during Playback Mode

Please use this supplement together with the Service Manual as follows :

Model No.	Bulletin No.	Order No.	Effective from
AJ-LT75E	83	VSD9707M602A/B	J9TNC0001

Board : AV SYSCON (VEP06B53C)

V19922#103005A

The following software has been up-dated to improve the functioning of the VTR.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
IC60102	VVVS12332V	VVVS12332Y	AV SYSCON PROM Ver. 1.32-00	1	
IC60802	VVVS12332V	VVVS12332Y	AV SYSCON PROM Ver. 1.32-00	1	

< TEST MENU >

AV SYSCON	IC60102	: 1.32-00	REEL	IC2101	: 1.09-00
	IC60802	: 1.32-00	CYLINDER	IC2201	: 1.07-00
KEYBOARD	IC65001	: 1.06-00			

Symptom : The audio may be muted and servo lamp flashes momentarily during the playback mode.

This symptom occurs only the following software version below.

CYLINDER microcomputer : Ver 1.07-00 (IC2201: M37774M5L432)

* Please note that it does not occur to the AJ-LT85E.

Cause : The servo lock information is basically transmitted from the CYLINDER microcomputer to the AV SYSCON by the serial data. However the serial data of servo lock (L) signal may rarely be transmitted instead of the servo lock (H) signal. At this time, AV SYSCON microcomputer detects the servo unlock. It results in audio mute.

Remedy : AV SYSCON software is upgraded.

* Note 1 *

1. The CYLINDER microcomputer Version 1.07-00 has been introduced since March 1998 production.
2. There is no problem if the new AV SYSCON software is introduced to the unit before March 1998 production.
3. When the CYLINDER microcomputer is less than version 1.07-00, the hardware modification must be required. The introduction of the new AV SYSCON software without the hardware modification will lead to the servo unlocked. Please refer to the Technical Bulletin No. VSD9711SD622.

* Note 2 * When the AV SYSCON software is up-graded, the Key Board PROM software must be updated with the latest version as shown below. Please refer to the Technical Bulletin No. VSD9804SD628.

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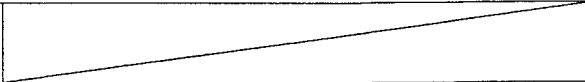
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AJ-LT75E					
AV SYSCON				Key Board	
Previous Version		New Version			
Part No.	Version	Part No.	Version	Part No.	Version
VSI2332D	1.16-00	VVVSI2332Y	1.32-00	VSI2494F	1.06-00
VSI2332G	1.19-00				
VSI2332J	1.21-00				
VSI2332L	1.23-00				
VSI2332N	1.25-00				
VVVSI2332P	1.26-00				
VVVSI2332S	1.28-00				
VVVSI2332V	1.30-00				

*** Note 3 ***

User Setting Menu may be reset at the Key Board PROM version up-grade. User Setting Menu must be written down before replacement of the Key Board PROM. Reset the SETUP Menu before replacement of Key Board PROM, and set "001 : LCD SUPER" of the Basic Menu to ON. After replacement of PROM, confirm that the User Setting Menu is reset or not. If it is reset, set again which was written down before replacement. And just make sure that the Service Menu and Hour Meter Data show the same data as before.

Key Board ROM			
1.01-00	→	Up-grade to version 1.06-00	See Note 3
1.02-00			
1.03-00			
1.04-00			
1.05-00			Only replacement of ROM is required for up-grade the version.

Precaution		
DVCAM Playback can be available according to the Cylinder and Reel microcomputer versions as follows. Set the Service Menu as shown below when the software version is not compatible with DVCAM Playback. A15: DVCAM ENA: <u>OFF</u>		
CYLINDER		
1.03-00	DVCAM Playback cannot be available.	
1.04-00	DVCAM Playback can be available.	
1.05-00		
1.06-00		
1.07-00		
REEL		
1.03-00	DVCAM Playback cannot be available.	
1.04-00		
1.06-00		
1.08-00	DVCAM Playback can be available.	
1.09-00		

*** Note 4 ***

Hardware modification for the Digital 1 and 2 Boards must be required. Please refer to the Technical Bulletin No. VSD9711SD622.

< Other symptoms which are corrected by this up-grade. >

- (1) The phases of the audio CH1 and CH2 may not be synchronized when the STOP button is pressed right after the PLAY mode and then pressed PLAY button instantaneously during SEPARATE MODE/STOP REC MODE on the VTR1.
- (2) When the playback is started before the loading is completed after a cassette IN and the servo is locked immediately during the STOP REC MODE on the VTR1, the phases of the audio CH1 and CH2 may be reversed.
- (3) When the tape beginning is detected after the REW mode and it is played back during the SHORT FF mode in the STOP REC MODE on the VTR1, the picture may be frozen and the audio may be abnormal.
- (4) When the rising edge of the PLAY mode, audio may be muted momentarily.
- (5) The playback CTL may be lacked during the ASSEMBLE mode.
- (6) The recording CTL may be lacked during the ASSEMBLE mode.

Technical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject : Reduction of Momentarily Audio Mute during Playback Mode

Please use this supplement together with the Service Manual as follows :

Model No.	Bulletin No.	Order No.	Effective from
AJ-LT85E	16	VSD9707M602A/B	J9TNA0001

Board : AV SYSCON (VEP06C68B)

V19922# 1030051

The following software has been up-dated to improve the functioning of the VTR.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
IC60102	VVVS12839G	VVVS12839H	AV SYSCON PROM Ver. 1.09-00	1	
IC60802	VVVS12839G	VVVS12839H	AV SYSCON PROM Ver. 1.09-00	1	

< TEST MENU >

* AV SYSCON	IC60102	: 1.09-00	REEL	IC2101	: 1.09-00
*	IC60802	: 1.09-00	CYLINDER	IC2201	: 1.07-00
KEYBOARD	IC65001	: 1.03-00			

< Symptom >

- (1) The phases of the audio CH1 and CH2 may not be synchronized when the STOP button is pressed right after the PLAY mode and then pressed PLAY button instantaneously during SEPARATE MODE/STOP REC MODE on the VTR1.
- (2) When the playback is started before the loading is completed after a cassette IN and the servo is locked immediately during the STOP REC MODE on the VTR1, the phases of the audio CH1 and CH2 may be reversed.
- (3) When the tape beginning is detected after the REW mode and it is played back during the SHORT FF mode in the STOP REC MODE on the VTR1, the picture may be frozen and the audio may be abnormal.
- (5) The playback CTL may be lacked during the ASSEMBLE mode.
- (6) The recording CTL may be lacked during the ASSEMBLE mode.

* **Note 1** * When the AV SYSCON software is up-graded, the Key Board PROM software must be updated with the latest version as shown below.

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AJ-LT85E					
AV SYSCON				Key Board	
Previous Version		New Version			
Part No.	Version	Part No.	Version	Part No.	Version
VSI2839E	1.06-00	VVVSI2839H	1.09-00	VSI2809C	1.03-00
VVSI2839F	1.07-00				
VVSI2839G	1.08-00				

Precaution	
DVCAM Playback can be available according to the Cylinder and Reel microcomputer versions as follows. Set the Service Menu as shown below when the software version is not compatible with DVCAM Playback. A15: DVCAM ENA: <u>OFF</u>	
CYLINDER	
1.03-00	DVCAM Playback cannot be available.
1.04-00	DVCAM Playback can be available.
1.05-00	
1.06-00	
1.07-00	
REEL	
1.03-00	DVCAM Playback cannot be available.
1.04-00	
1.06-00	
1.08-00	DVCAM Playback can be available.
1.09-00	

Technical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject : Change of Cassette Compartment Assembly

Please use this supplement together with the Service Manual as follows :

Model No.	Bulletin No.	Order No.	Effective from
AJ-D750E/EN	178	VSD9606M502A ✓	Running change
AJ-D850E	15	VSD9903M901A ✓	Running change
AJ-D650E	144	VSD9612MJ01A ✓	Running change
AJ-D640E	144	VSD9612MJ01A ✓	Running change
AJ-D450E	4	VSD9907M904A ✓	Running change
AJ-D440E	4	VSD9907M904A ✓	Running change
AJ-D230E	87	VSD9708M605 ✓	Running change
AJ-D230HE	5	VSD9906M605 ✓	Running change
AJ-LT75E	82	VSD9707M602A ✓ ✓	Running change
AJ-LT85E	15	VSD9902M601A ✓	Running change
AJ-D780E	23	VSD9809M612A ✓	Running change

Cassette Compartment Assembly

The parts shown below have been changed for standardization.

V17726 # 2036083
 V24143 # 2022072
 V13115 # 1017074
 V24902 # 2023119
 V20162 # 2014224
 V24833 # 2011104
 V13322 # 1030051

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
4	VXA5761	VXA6572	FRONT GUIDE 1 ASS'Y	1	
	XYN2+C3	VHD1323	SCREW	11	See the exploded views in the next page.
	XQN2+A3	VHD1323	SCREW	2	See the exploded views in the next page.

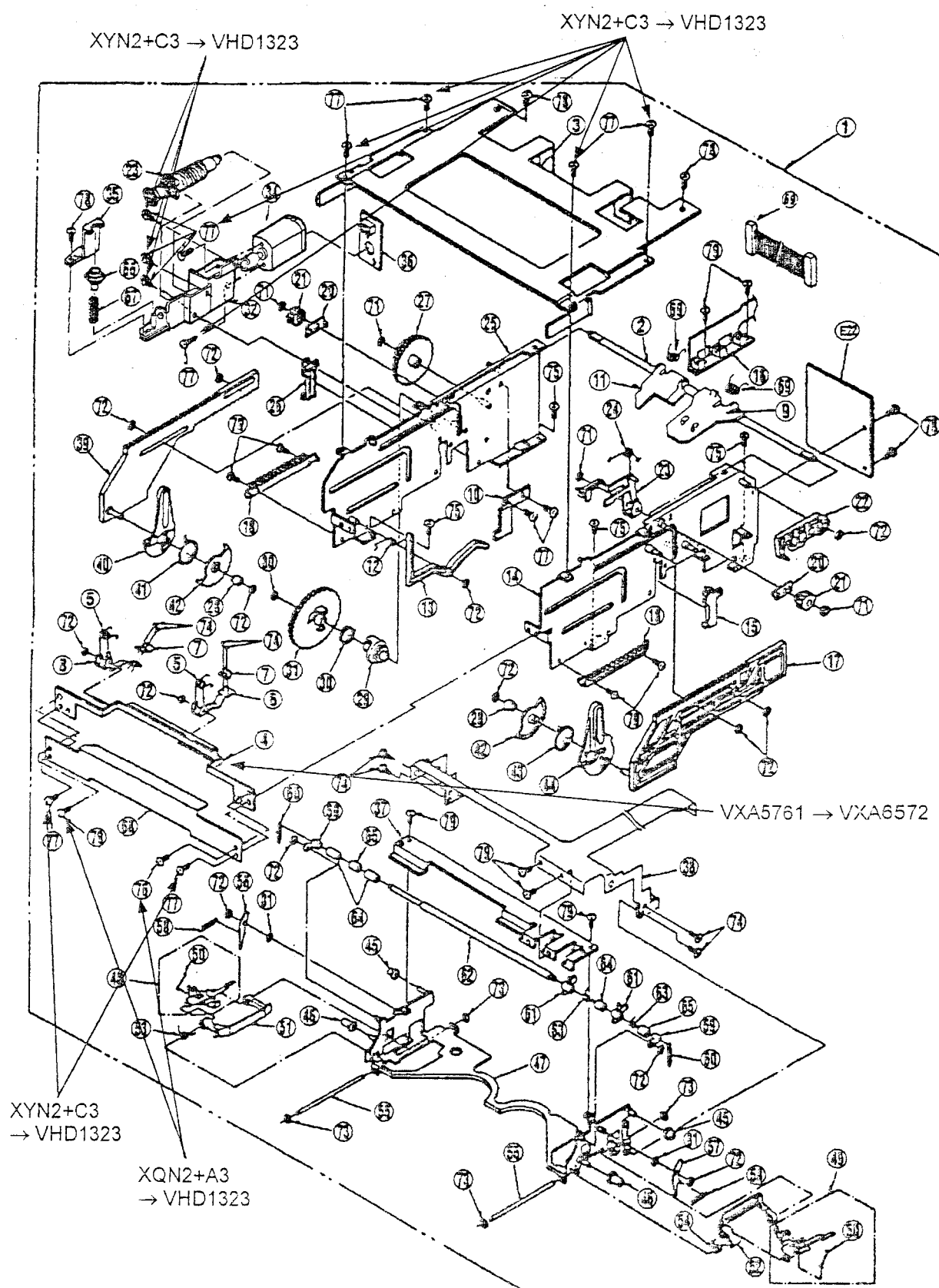
V24079 # 10221081
 V23053 # 1036041

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CASSETTE COMPARTMENT ASSEMBLY



Technical Bulletin DVCPRO : AJ-LT75E

No.	Order No.	Subject	Effective from
Service Manual	VSD9707M603	AJ-B75E	
Service Manual	VSD9707M602A	AJ-LT75E Vol.1	
Service Manual	VSD9707M602B	AJ-LT75E Vol.2	
1	LT75SF05A	Software Version up grades	